
User Manual

Model: FI9821W V2

**Indoor HD Pan/Tilt Wireless IP Camera
(For Windows & Mac OS)**



Black



White

Table of Contents

1 Overviews.....	3
1.1 Key Features.....	3
1.2 Read Before Use.....	4
1.3 Packing Contents.....	4
1.4 Physical Description.....	5
1.5 SD Card.....	7
2 Accessing the Network Camera.....	8
2.1 Access the Camera in LAN.....	8
2.2 Access the Camera in WAN.....	12
2.3 Using the VLC player.....	18
3 Surveillance Software GUI.....	21
3.1 Login Window.....	21
3.2 Surveillance Window.....	23
4 Advanced Camera Settings.....	31
4.1 Device Status.....	31
4.2 Basic Settings.....	33
4.3 Network.....	45
4.4 Video.....	64
4.5 Alarm.....	67
4.6 Record.....	70
4.7 Pan/Tilt.....	71
4.8 Path Settings.....	76
4.9 Firewall.....	76
4.10 System.....	77
5 Playback.....	81
6 Phone APPs.....	83
6.1 APP for Android cell phones.....	83
6.2 APP for iPhones.....	91
7 APPENDIX.....	98
7.1 Frequently Asked Questions.....	98
7.2 Default Parameters.....	103
7.3 Specifications.....	103
7.4 CE & FCC.....	105
7.5 WARRANTY.....	106
8 OBTAINING TECHNICAL SUPPORT.....	109

1 Overviews

FOSCAM FI9831W is an integrated wireless IP Camera with a color CMOS sensor enabling viewing resolution 1280*720. It combines a high quality digital video camera, with a powerful web server, to bring clear video to your desktop from anywhere on your local network or over the Internet.

With flexible 300-degree pan and 120-degree tilt, FI9831W gives users more comprehensive control over a monitored site. The FI9831W supports the industry-standard H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth.

The IPCAM is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explore. Therefore the management and maintenance of your device is simplified by using the network to achieve the remote configuration and start-up.

The camera is designed for indoor surveillance applications such as retail stores, offices or banks. Controlling the IPCAM and managing images are simplified by using the provided web interface across the network utilizing wireless connectivity.

FOSCAM provides Phone APPs for Android and iPhone users, please search “Foscam ip cam viewer” and install it through APP Store, then you can view your camera directly as a computer.

1.1 Key Features

Standard H.264 video compression algorithm to satisfy the transmission of high definition video in narrow bandwidth network

1.0 Mega Pixel

Pan 300 degree, tilt 120 degree

Supports IE/Firefox/Google/Safari browser or any other standard browsers

Supports WEP,WPA and WPA2 Encryption

Wi-Fi compliant with wireless standards IEEE 802.11b/g/n

IR night vision (Range:8m)

Supports image snapshot

Supports dual-stream

Supports SD Card to 32G

Supports IR-Cut and the filter change automatically

Embedded FOSCAM DDNS(dynamic domain name service) Service

Supports two-way audio / remote viewing & record from anywhere anytime

Multi-level users management with password protection
 Motion detection alert via email or upload image to FTP
 Supporting Third Party Domain Name Service
 Providing Phone APPs for Android and iPhone users
 Supports multiple network protocols: HTTP /TCP /IP /UDP /FTP /DHCP /DDNS / UPNP
 Providing Central Management Software to manage or monitor multi-cameras

1.2 Read Before Use

Please first verify that all contents received are complete according to the Package Contents listed below. Before the Network Camera is installed, please carefully read and follow the instructions in the Quick Installation Guide to avoid damage due to faulty assembly and installation. This also ensures the product is used properly as intended.

1.3 Packing Contents

• IPCAM×1	• CD×1
• Wi-Fi Antenna×1 (only available for wireless model)	• Quick Installation Guide ×1
• DC Power Supply×1	• Warranty Card×1
• Mounting bracket×1(option)	
• Network Cable×1	

1.4 Physical Description

Front Panel



Figure 1.1

- 1 Speaker: Built-in speaker
- 2 LENS: CMOS sensor with fixed focus lens.
- 3 Infrared LED: 11 IR LEDs
- 4 Microphone: Built-in microphone
- 5 WIFI Antenna: Wireless Antenna

Rear Panel

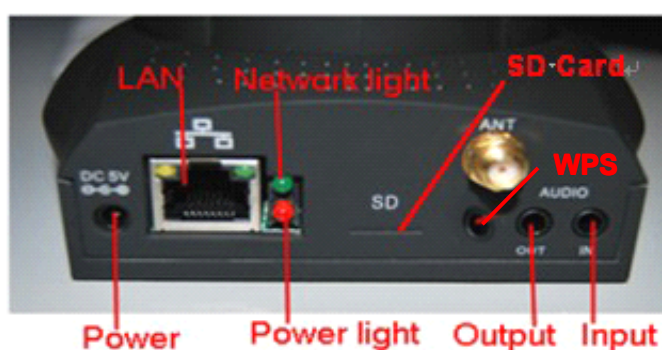


Figure 1.2

- LAN: RJ-45/10-100 Base T
- Power: DC 5V/2A Power supply
- Power Light: If the power adapter works well, the light will turn on.
- Network Light: The LED will blink when power and network cable are plugged in

SD card: Supports to 32G

Audio Input: This jack is used to plug an external microphone

Audio Output: This jack is used to plug an external speaker

Bottom View

There are up to three labels located at the bottom of the camera; this is an important feature of original Foscam cameras. If your camera does not have labels as shown in Figure 1.3, it may be a clone. Cloned Foscam cameras can not use original firmware and are not eligible for warranty or technical services.

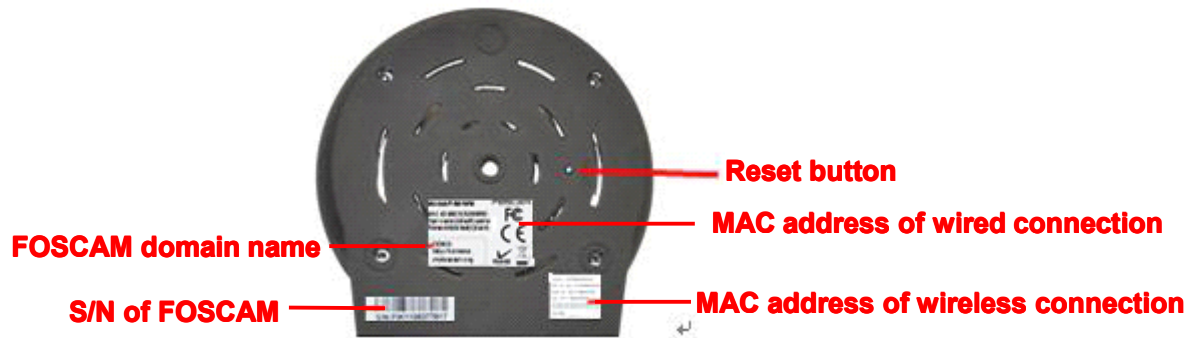


Figure 1.3

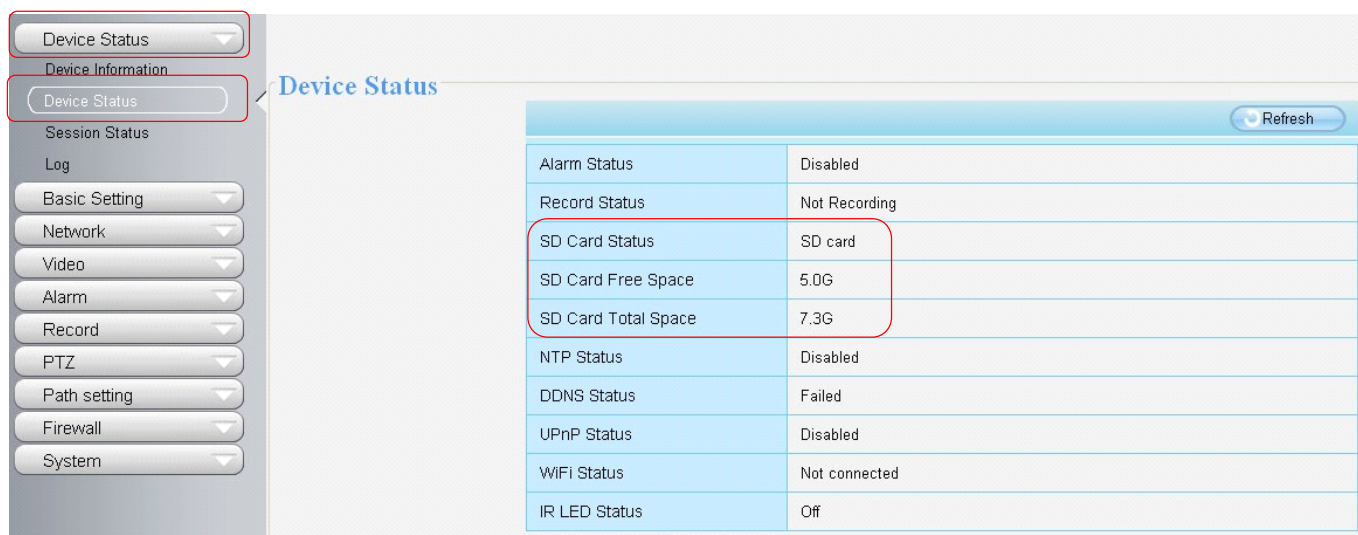
Reset button: Press and hold down the RESET BUTTON for 5 seconds. Wait for 20 seconds after released, the IP camera will reboot and it will be reset back to factory default settings. You must power on the camera before reset.

1.5 SD Card

This camera supports SD Card and the max size of SD card must be under 32G.

When you plug in the SD card during the camera work process, please reboot the camera again, or else the SD Card may be cannot work well.

Go to the **Settings→Device Status→Device Status** page, you can see the SD card status.



The default storage path of alarm record files is SD card, when the available size of SD card is less than 256M, the old record files will be deleted automatically.

2 Accessing the Network Camera

This chapter explains how to access the network camera through web browsers and RTSP players.

2.1 Access the Camera in LAN

This camera support HTTP and HTTPS protocols, so here will allow you to use HTTP and HTTPS port no.

(1) Http:// LAN IP + Http Port no.

Double click the IP Camera Tool icon and it should find the camera's IP address automatically after you plug in the network cable.

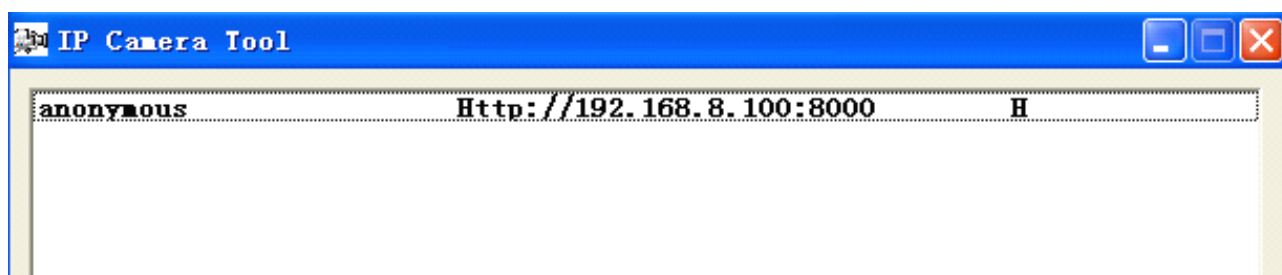


Figure 2.1

Double click the IP address of the camera; your default browser will open to the camera login page.

Https:// LAN IP + Https Port no.

The default Https port no. is 443. You can use the url to access the camera: https:// LAN IP + HTTPS port.

Go to **Settings - Network - Port** panel , you can see and change the https port no.

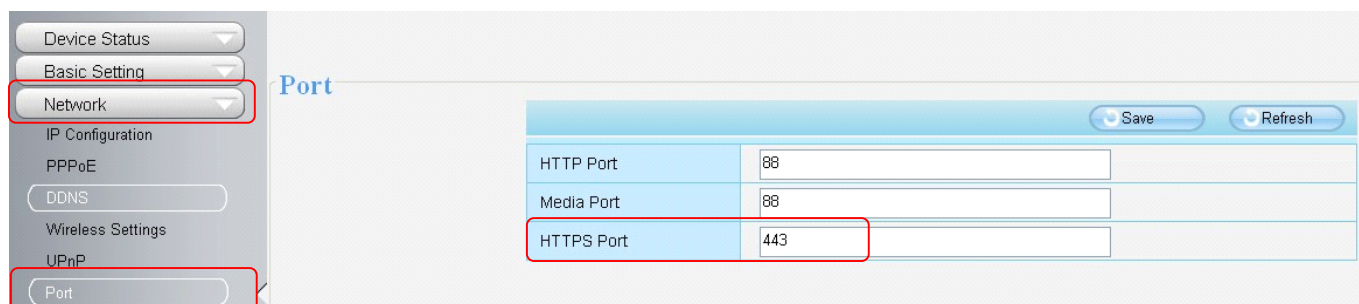


Figure 2.2

Sometimes you need to add the url to the Trusted Sites,

Open **Internet Explorer** if it is not already opened. Click on **Tools**, then click **Internet Options**.

Next, click the **Security** tab, then click the **Trusted sites** button. Finally ,click the **Confirm** button.

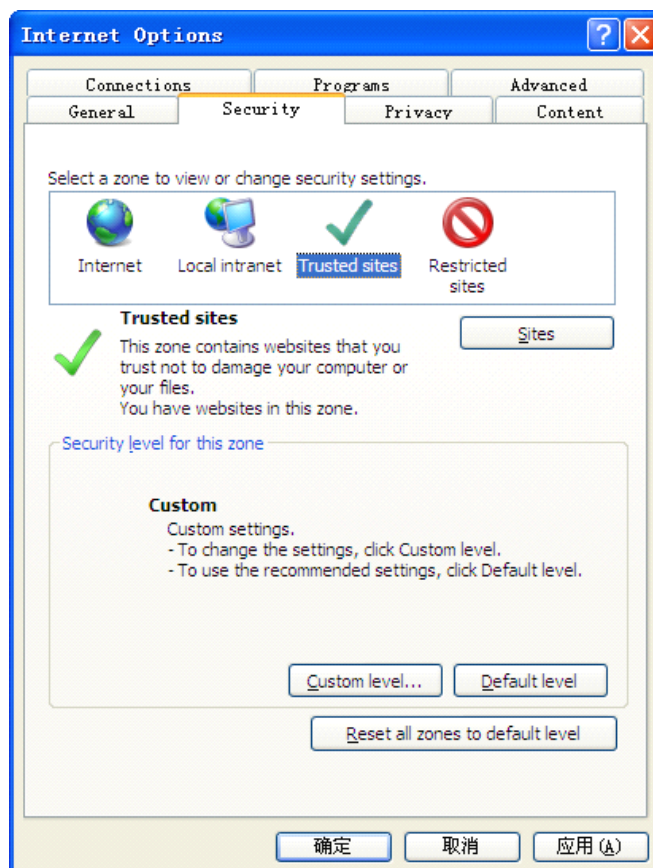


Figure 2.3

For **Firefox**, you can add the trusted as the following way:

Tools --- Options --- Advanced --- View Certificates --- Servers

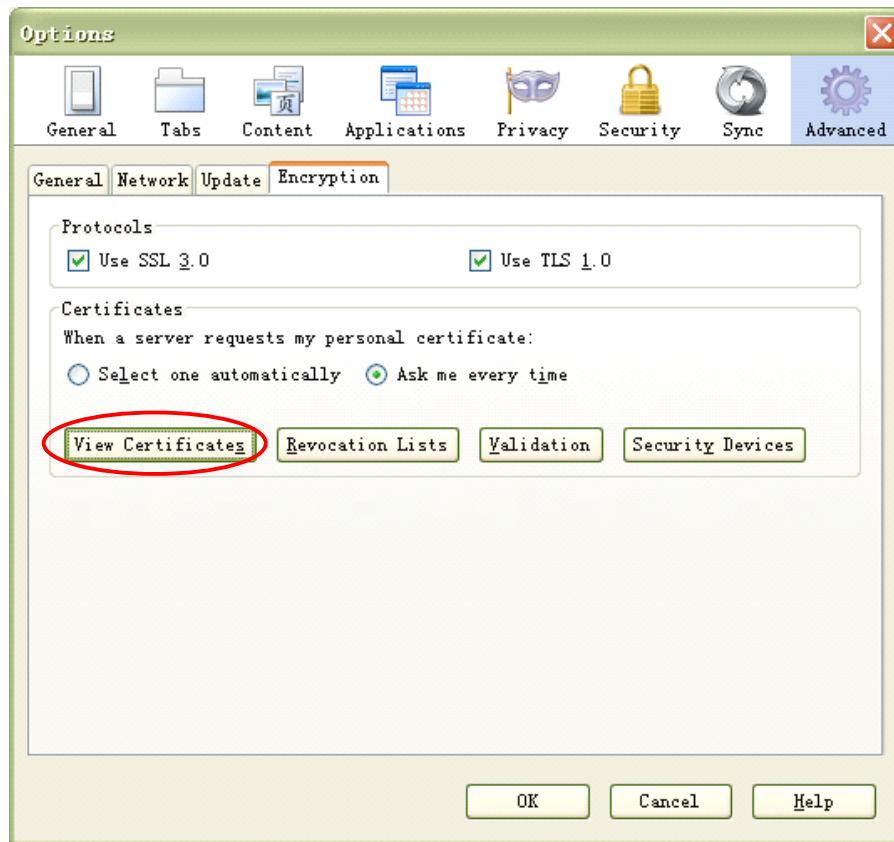


Figure 2.4

Click **View Certificates**, and go to **Servers** option.

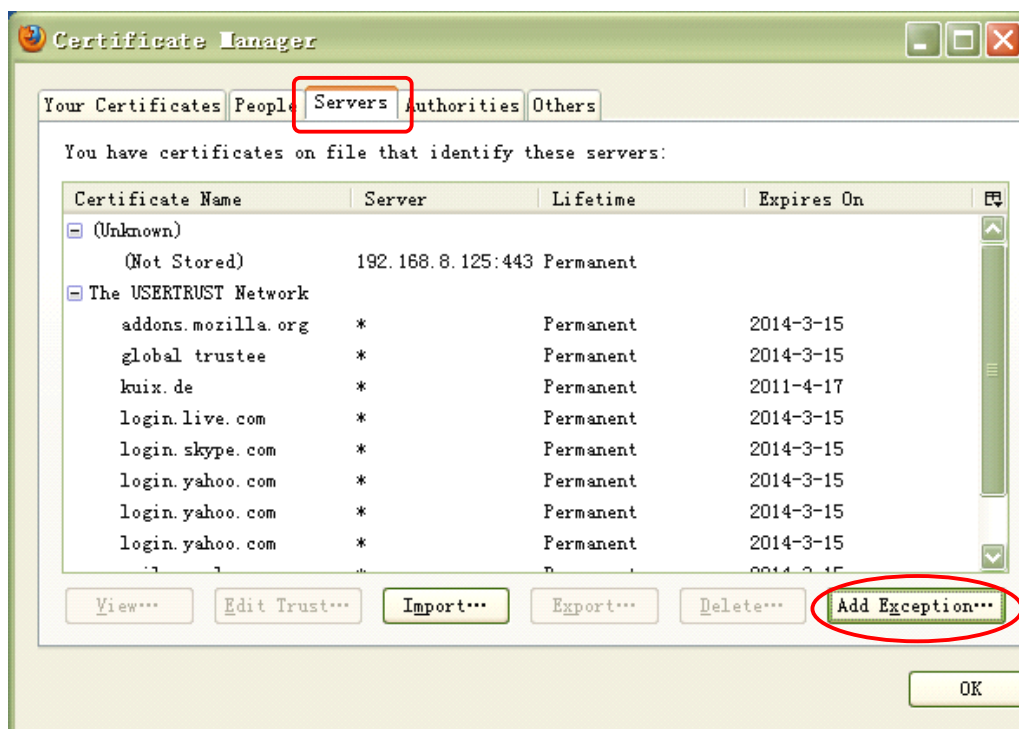


Figure 2.5

Go to **Add Exception** panel.

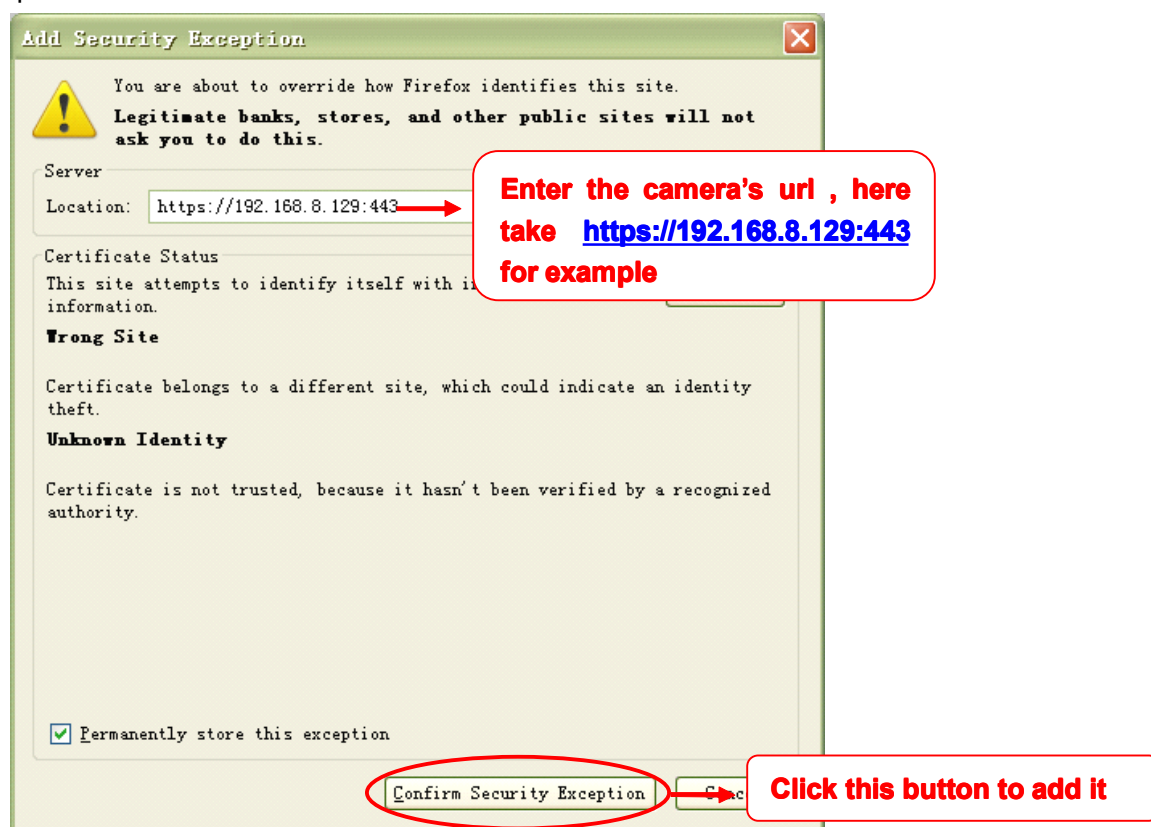


Figure 2.6

2.2 Access the Camera in WAN

2.2.1 Static IP Addresses

Users who have static IP addresses do not need to set DDNS service settings for remote access. When you have finished connecting the camera using the LAN IP address and port forwarding, you can access the camera directly from the Internet using the WAN IP address and port number.

How to Obtain the WAN IP address from a public website

To obtain your WAN IP address, enter the following URL in your browser:
<http://www.whatismyip.com>. The webpage at this address will show you the current WAN IP.



Figure 2.7

Access your IP Camera from the Internet

You can access the IP Camera from the Internet (remote access). Enter the WAN IP address and port number in your standard browser. For example, you would enter http://183.37.28.254:85

Note Make sure port forwarding is successful. You can do port forwarding two ways.

1) Login to your router to enable the “UPnP” function. You can then login to the camera as administrator, choose **Network**, and then choose **UPnP** to enable UPnP. Make sure that the status of UPnP reads “UPnP Successful” on the Device Status page.

2) Do port (HTTP port and Media port) forwarding manually. (See Figure 2.11 for further details) If your router has a Virtual Server, it can do port forwarding. Add the camera’s LAN IP and port which you had set earlier to your router’s port forwarding settings.

Note: If you plug the camera into a router, it will have a dynamic IP address and you need to set DDNS service settings to view it remotely.

2.2.2 Dynamic IP Addresses

DDNS is a service that allows your IP Camera, especially when assigned with a dynamic IP address, to have a fixed host and domain name. This means that even though your WAN IP address is constantly changing, you will have a fixed hostname you can use to access your cameras at all times. You can access the camera directly from the Internet using the hostname and port number.

What is the HTTP Port no.?

Default HTTP Port is 88

All cameras have the default HTTP port of 88. For example, if the LAN IP link of the camera is <http://192.168.8.102:88>, this means that the camera's HTTP port is 88. You can change port 88 to another port if you'd like such as 2000 or 8090, which will not be conflict with other existing ports like 25, 21, 10000. Here you can set the port no. between 1 and 65535.

Change the default http no.88 to another one.

How to assign a different HTTP Port No. and fixed the LAN IP of the camera by the IP Camera Tool?

Step 1: Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP address, and click on "Network Configuration", this brings up the network configuration box as shown in Figure 2.8 and 2.9.

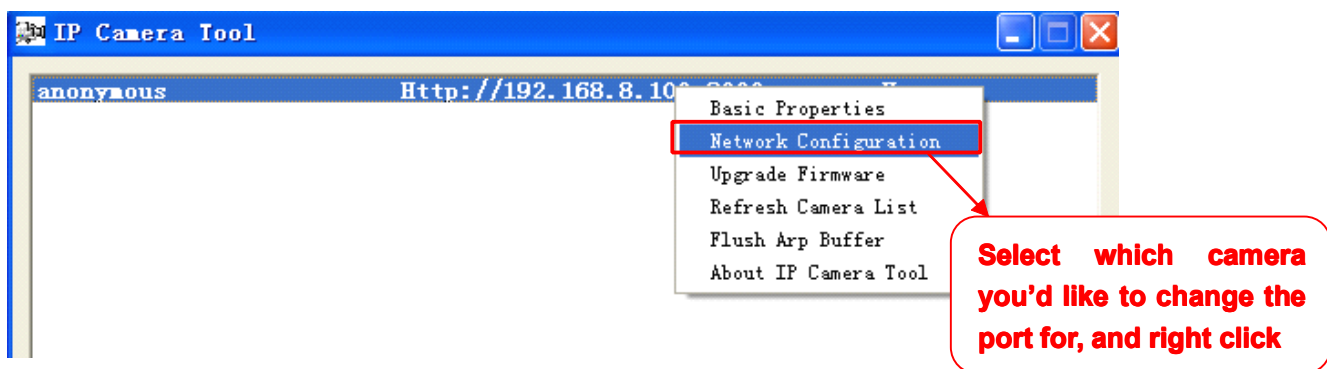


Figure 2.8

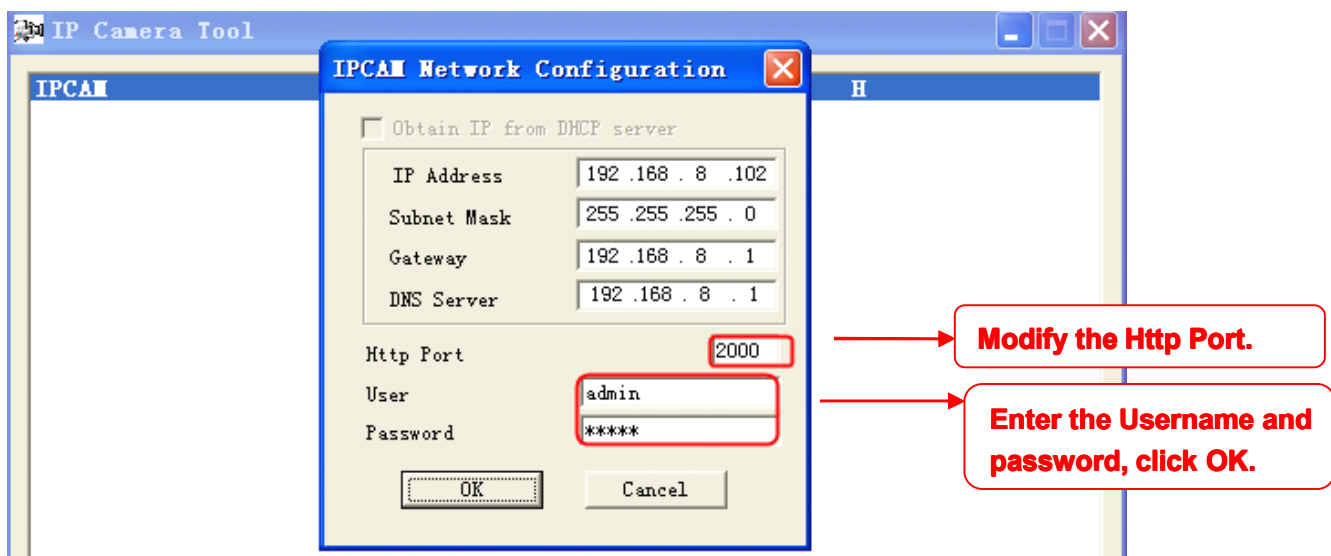


Figure 2.9

Step 2: Enter the username and password of the Administrator (default username is admin with a blank password), and click “OK” to apply changes.

Step 3: Wait around 10 seconds, you’ll see that the camera’s LAN IP address has changed. In our example it was changed to 2000, so we see <http://192.168.8.102:2000> in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of <http://192.168.8.102:2000>. This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!

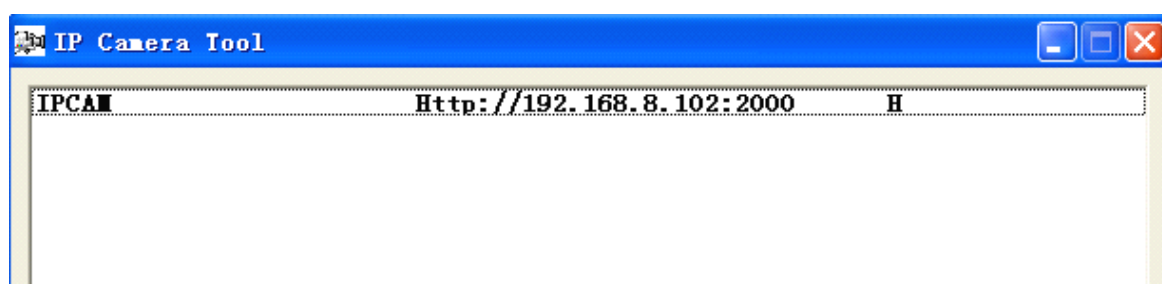


Figure 2.10

What is Port forwarding?

If you have never done port forwarding before, you can open and view the following link to understand the basic concept. Port forwarding allows for outside connections to access a specific device on your network from anywhere in the world. Every router automatically blocks any incoming connections for safety purposes. Using port forwarding, you are telling your router to allow a connection through a certain port (you can think of it as a gateway) into your router. You set this port to a specific device, in our case an IP Camera, so it can be accessed from anywhere in the world.

Click this link to learn more about port forwarding: <http://portforward.com/help/portforwarding.htm>

How do we configure Port Forwarding?

For this section, we will be using an example:

Let's say the camera's LAN IP address is <http://192.168.8.100:2000>

Step 1: Login to the router, and go to your router's port forwarding or port triggering menu. Sometimes this is also under the name of Virtual Server or NAT.

Using the Linksys brand router as an example, we would log into the router, and go to the Applications &

Gaming menu. We would then click on the “Single Port Forwarding” sub-menu.

Step 2: Create a new column using the LAN IP address & HTTP Port of the camera within the router as shown below, then push OK or Submit to save your settings:

Single Port Forwarding

Application Name: **Foscam Cam**

External Port	Internal Port	Protocol	To IP Address	Enabled
---	---	---	192.168.8.1	<input type="checkbox"/>
---	---	---	192.168.8.1	<input type="checkbox"/>
---	---	---	192.168.8.1	<input type="checkbox"/>
---	---	---	192.168.8.1	<input type="checkbox"/>
---	---	---	192.168.8.1	<input type="checkbox"/>
2000	2000	Both	192.168.8.100	<input checked="" type="checkbox"/>
		Both	192.168.8.1	<input checked="" type="checkbox"/>
		Both	192.168.8.1	<input type="checkbox"/>

Fill the HTTP Port of the camera in the columns of External Port and Internal Port. Example: 2000

Assign a name for the port forward setting here

Fill in this section with the LAN IP of the camera; we would enter “100” for our example.

Figure 2.11

First method :

Use the embedded DDNS to access the camera via the Internet

Each Foscam camera has an embedded unique DDNS domain name, the format of this domain name is xxxxxx.myfoscam.org. On the bottom of the camera, you can see the domain name sticker with this information on it.

For example, we can use test09.myfoscam.org. In the camera, click Settings at the top, click “Network” on the left, then click “DDNS” to get to the DDNS settings page. Here you can see the unique domain name of your camera.

Save Refresh

Enable DDNS ☒

Manufacturer's DDNS

Manufacturer's DDNS: test09.myfoscam.org Restore DDNS to factory

Third Party DDNS

Domain:

DDNS Server Address: None

Figure 2.12

Now you can use “http://Domain name + HTTP Port” to access the camera via the Internet.

Take hostname test09.myfoscam.org and HTTP Port of 2000 for example, the URL link to access the camera via the Internet would be http:// test09.myfoscam.org:2000.

Second method :

Use the Third party DDNS to access the camera via the Internet

Step 1 Please go to the third party DDNS website(such as www.no-ip.com) to create a free hostname.

Step 2 DO DDNS Service Settings within the Camera

Please set DDNS Settings within the camera by hostname, a user name and password you've got from www.no-ip.com

Take hostname ycxgwp.no-ip.info, user name foscam, password foscam2012 for example.

Firstly, goes to option of DDNS Settings on the administrator panel.

Secondly, select No-Ip as a server.

Thirdly, fill foscam as DDNS user, fill password foscam2012 as DDNS password, fill ycxgwp.no-ip.info as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

Fourthly, after the restart, login the camera, and go to option of Device Status on the administrator panel, and check if the DDNS status is successful.

If failed, please double check if you have input the correct hostname, user name, and password, and try to redo the settings.

Note

If you have set Third Party DDNS successfully ,the Foscam Domain Name will be invalid. The Third Party DDNS and the Foscam Domain Name cannot work at the same time, the last time you configured will take effect.

2.3 Using the VLC player

This camera supports RTSP streaming, here you can view the camera using VLC player.

RTSP URL [rtsp:// \[user_name\]:\[password\]@IP:HTTP_port number/videosream](rtsp://[user_name]:[password]@IP:HTTP_port_number/videosream)

The part in the square brackets may be omitted.

user name & password:

The user name and password to access the camera. This part can be omitted.

IP:

WAN or LAN IP address.

Videostream:

Here support three mode: videoMain, videoSub and audio. When the network speed is bad, here you had better select videoSub. If you select audio, you can only hear the sound but cannot see the video.

For example:

IP: 192.168.1.11

HTTP Port number: 88

User name: admin

Password: 123

Here I can enter one of the following URLs in the VLC.

- 1) rtsp://admin:123@192.168.1.11:88/videoMain
- 2) rtsp:// @192.168.1.11:88/videoMain
- 3) rtsp://:123@192.168.1.11:88/videoMain
- 4) rtsp://admin@192.168.1.11:88/videoMain

Open the VLC, and go to Media→Open Network Stream option, then enter the URL into VLC.

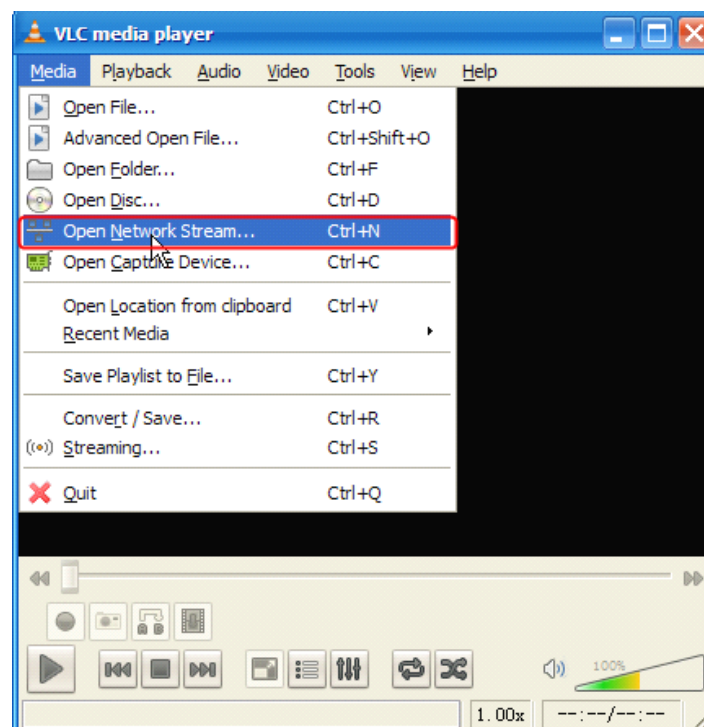


Figure 2.13

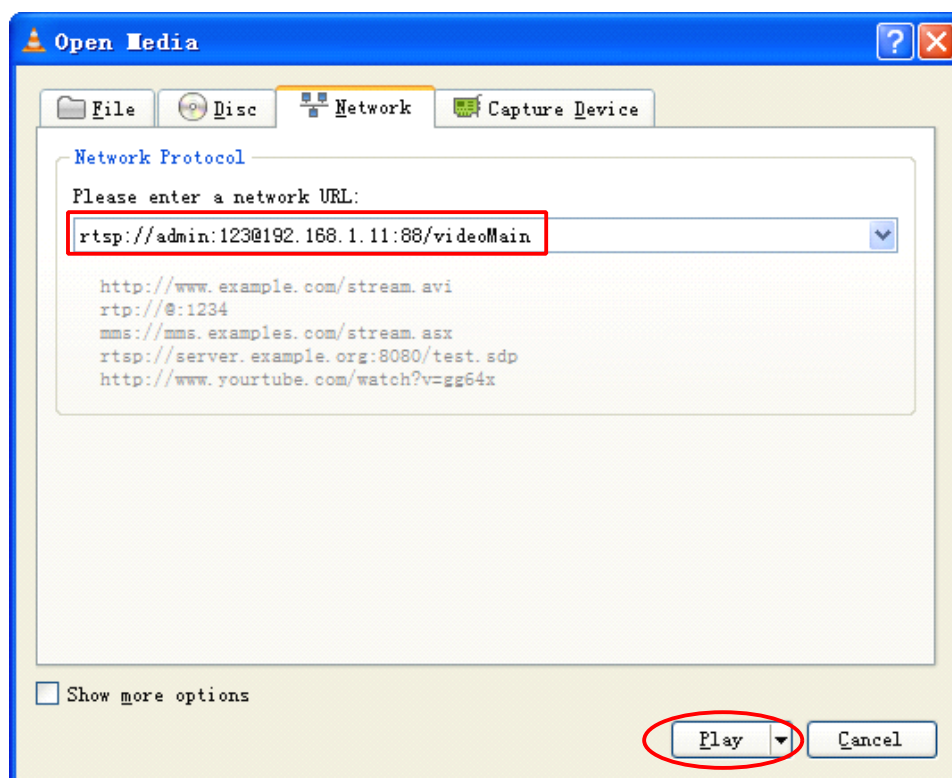


Figure 2.14

Sometimes you may need to enter the user name and password again. Click OK and you can see the real-time preview.

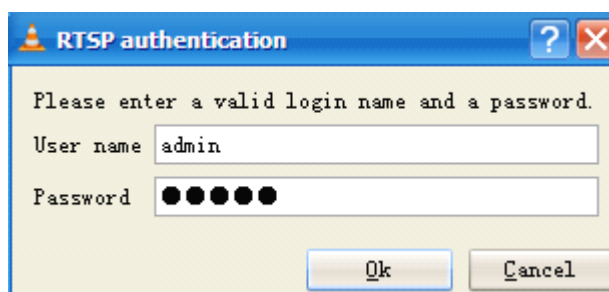


Figure 2.15

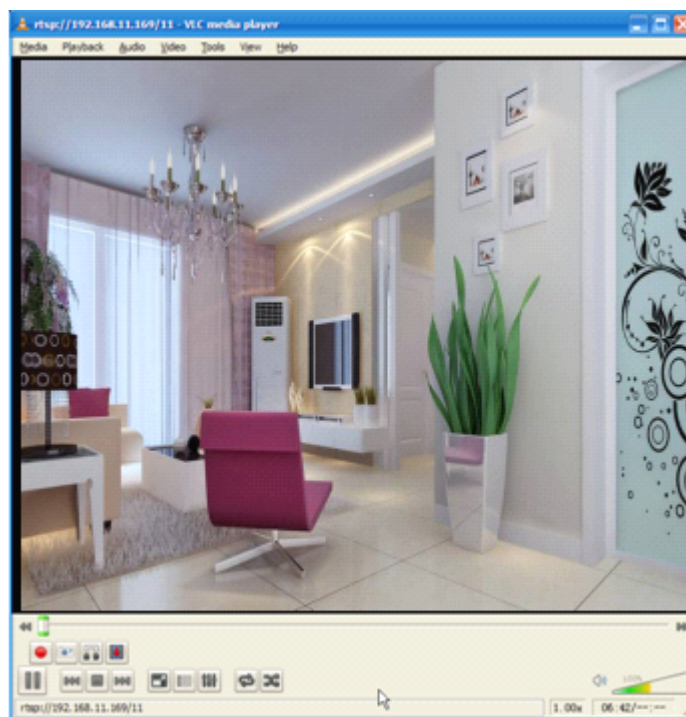


Figure 2.16

If you cannot play the video in the VLC player, please check the port mapping. You can read Quick Installation Guide about How to configure port forwarding.

NOTE:

If you modify the camera's username or password, you had better reboot the camera, or else the new username and password cannot take effect when you enter the authentication in the VLC.

3 Surveillance Software GUI

Please refer to the Quick Installation Guide if you install the camera at first time. After finishing quick installation, you can take time to learn the operation of the software.

3.1 Login Window

The login window is a light gray rounded rectangle. It contains five sections, each highlighted with a red box and a red number 1 through 5 to its right:

- 1**: Username field containing 'admin' and an empty Password field.
- 2**: Media Port field containing '888'.
- 3**: Stream dropdown menu showing 'Main stream'.
- 4**: Language dropdown menu showing 'English'.
- 5**: A 'Login' button at the bottom right.

Figure 3.1

Please check the login window above, it was divided to 5 sections from no. 1 to 5.

Section1 Enter the User name and password

The default administrator username is admin with a blank password, please reset the password at first using and prevent unauthorized users login the camera (read chapter 3.2.4 about how to change).

Section2 Media port

The Media port is used to transfer video stream, and the default port no. is 888, you can reset the port no. between 1 ~65535 on the Settings-(Network)(Port page. The camera will obtain the port no. automatically, you need not to fill it manually.

Section3 Stream

The camera supports two stream modes: Main stream and sub stream. If you want to access the camera form LAN, here you can select Main stream. If you want to access the camera from Internet, here we recommend sub stream.

Note: When the network bandwidth is badly you'd better select Sub Stream and the video will be more fluency.

Section4 Select the language

You can select the language you need via click on the language dropdown list to switch.

Section5 Login the camera

Click Login button and you will see the surveillance windows.

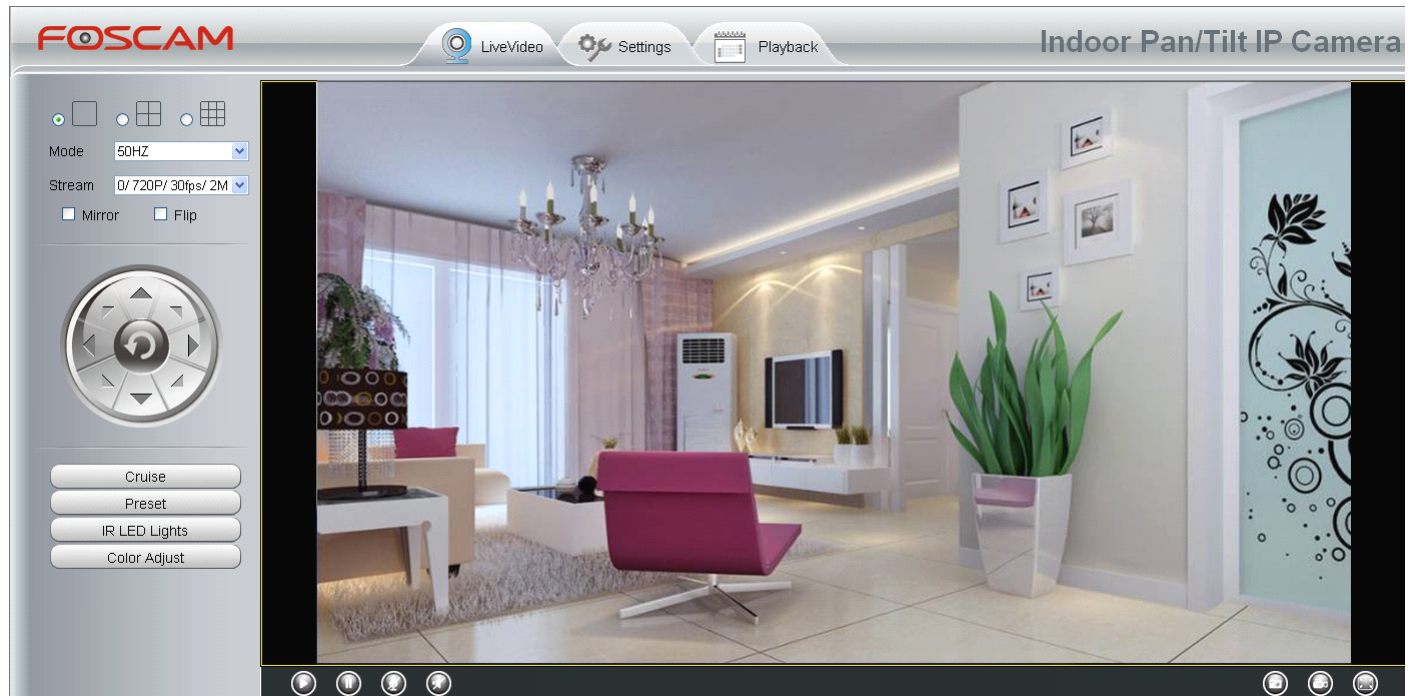


Figure 3.2

3.2 Surveillance Window

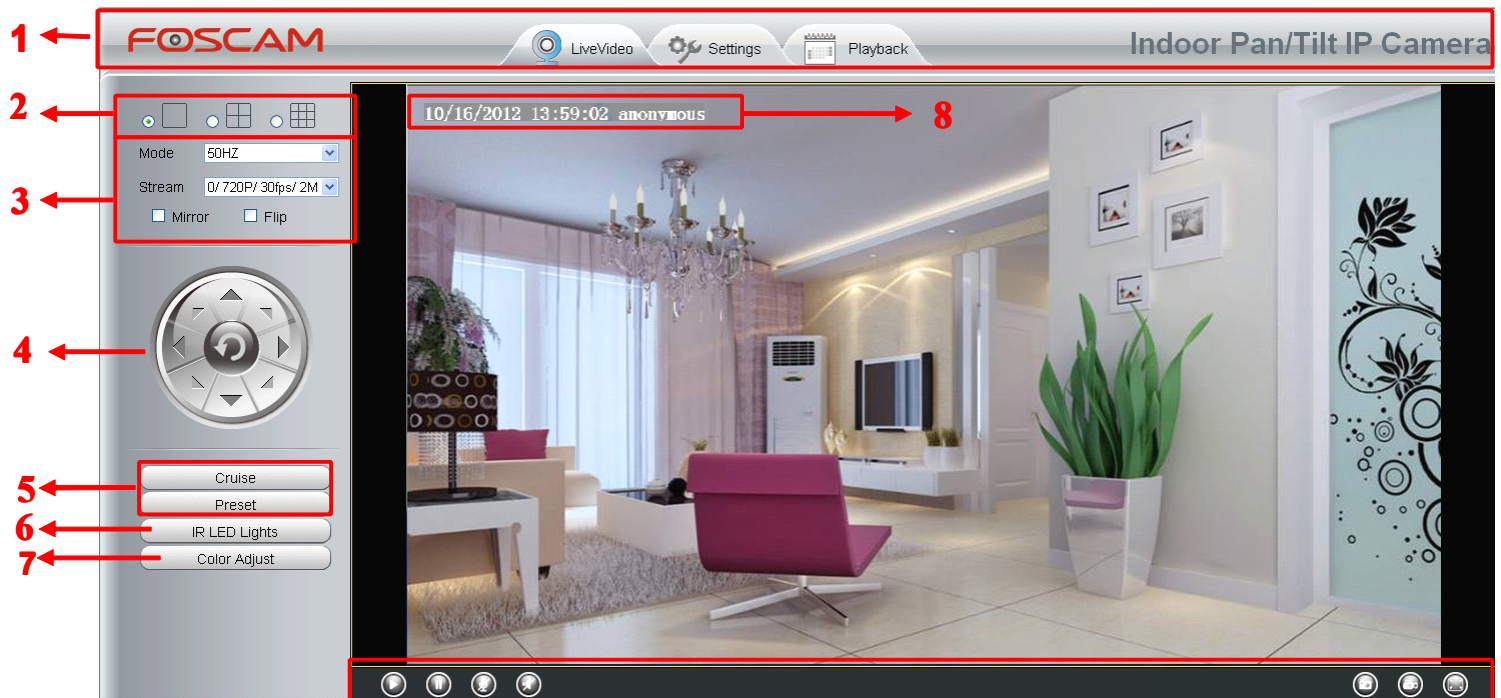


Figure 3.3

Section1 FOSCAM Logo/ LiveVideo / Settings/Playback buttons

FOSCAM : FOSCAM LOGO

LiveVideo : Path to surveillance window. Click this button and back to the surveillance window

Settings : Path to Administrator Control Panel, Click it, and it will lead to Administrator Control Panel and do advanced settings.

Playback : Click this button and back to the Playback panel to view the stored audio files stored in the SD Card.

Section2 Multi-Device Window



The firmware inside the camera supports up to maximum of 9 cameras being monitoring at the same time. You can add other cameras in multi-device setting (read chapter 4.2.5).

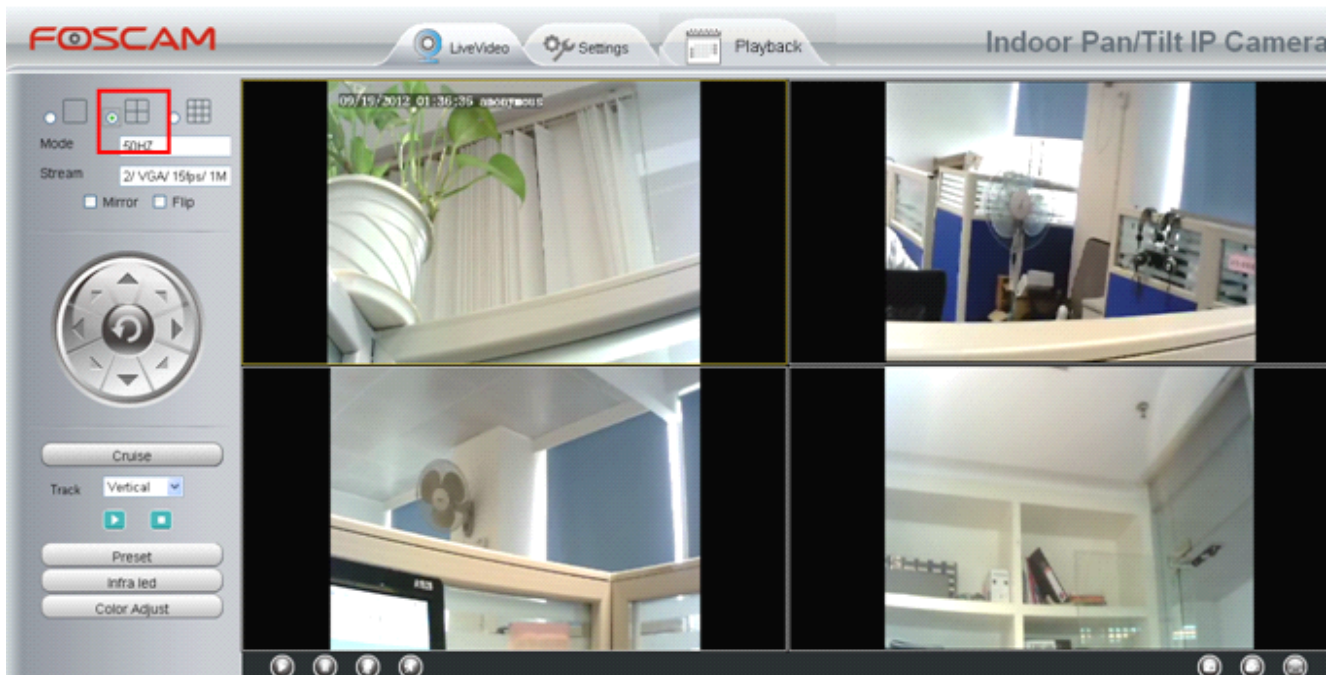


Figure 3.4

Section3 Mode/ Stream / Mirror/ Flip buttons

Mode

- 1) 50HZ -----Indoor surveillance (Region: Europe, China)
- 2) 60HZ -----Indoor surveillance (Region: USA, Canada)

Stream

The default Stream supports four modes: 0/720P/30fps/4M, 1/VGA/25fps/2M, 2/VGA/ 15fps/ 1M and 3/ VGA/10fps/200K. The format of the stream type is **Stream type no. / Resolution / Maximum frame rate/ Bit rate**

1) Stream type no. : The number is used to identify the stream type.

2) 720P/ VGA

There are two resolutions, the bigger one is 720P, and the smaller one (VGA) is 640x480 pixels. The bigger the resolution, the better of the image quality is. If you are accessing the camera via internet and want to get more fluent video streaming, please select resolution VGA.

3) Maximum frame rate

When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.

4) Bit rate

Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should

combine well with the network bandwidth. When the bandwidth is very narrow, and bit rate is large, that will lead to video can not play well.

You can reset the stream type on **Settings-> Video-> Video Settings** panel.

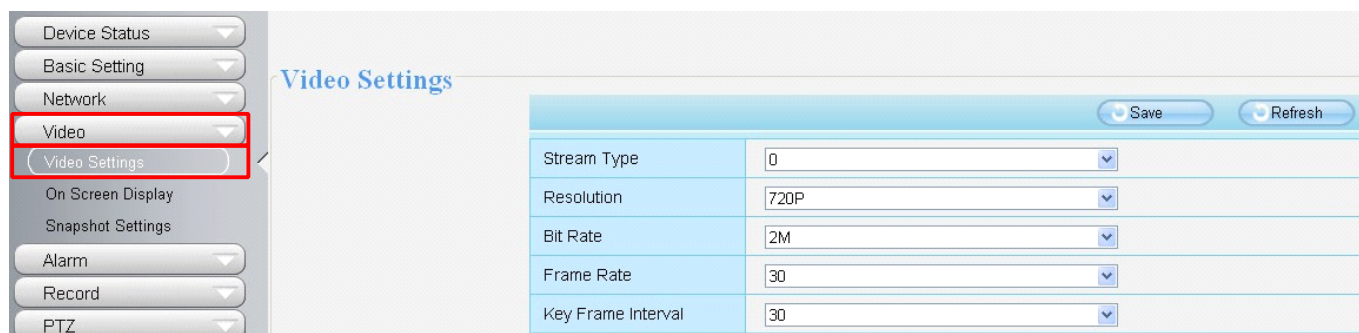
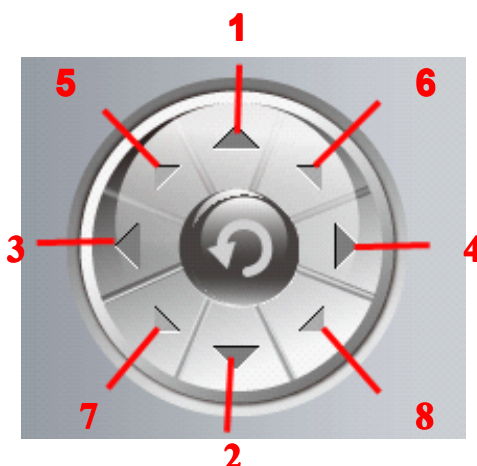


Figure 3.5

After changing, please re-login the camera and you can see the modification.

Section4 Pan/Tilt Control



1-----Up control button,

3-----Left control button,

5----- Up-Left control button

7----- Down-Left control button

2-----Down control button,

4-----Right control button,

6----- Up-Right control button

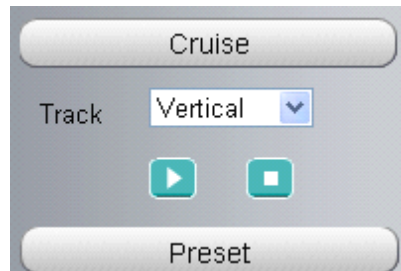
8----- Down-Right control button



Click this button and go to center

Section5 Cruise / Preset settings

Cruise Settings



The default cruise tracks have two types: Vertical and Horizontal.

Vertical: The camera will rotate from up to down.

Horizontal: The camera will rotate from left to right.



: Start cruise.



: Stop cruise.

If you want to define or change the cruise trace, please go to **Settings** → **PTZ** → **Preset Settings** panel.

How to do cruise?

Firstly: Select one track in the track dropdown list



Secondly: Click Start cruise button, the camera will cruise following the predefined path.

Thirdly: Click stop button and finish cruising.

Preset settings



IPCAM supports 16 preset positions, which is considered enough for DIY home & small business surveillance market

The default preset position is Topmost, Bottom most, Left most, right most, you can add other preset positions.



Add Click this icon to save the position you need the camera to remember




Delete Select one preset position and click this button to delete it.




GO Select one preset position in the preset dropdown list and click Go to make the camera move the preset position

How to do preset position?

Firstly, move the camera and stop at a desired place where you want make preset position.

Secondly, click  button and enter a descriptive name for the preset position. The preset position cannot contain special characters. Then click OK to save it. If you want to reset the preset position, click Cancel.

After that, you can move the camera and stop at another place, and set another preset position. You can do all the 16 preset positions with this method.

If you want to see one preset position you have set, only select the preset position name from the preset dropdown list, and click go  button, the camera will go to the preset position.

Section6 IR LED Lights



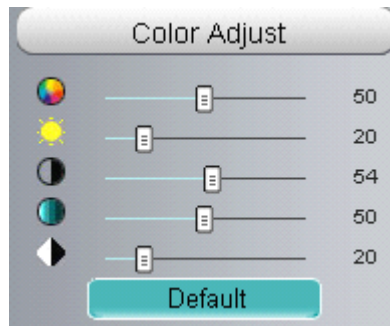
Click Infra led and there are two modes to adjust the infrared led: Auto and Manual.

Auto: Select it and the camera will adjust the infra led (on or off) automatically.

Manual: Select it and you can turn on or turn off the infra led manually.

Section7 Image quality settings

In this page, you can tune Hue, Brightness, Contrast, Saturation, and Sharpness to get higher quality.



Section8 OSD

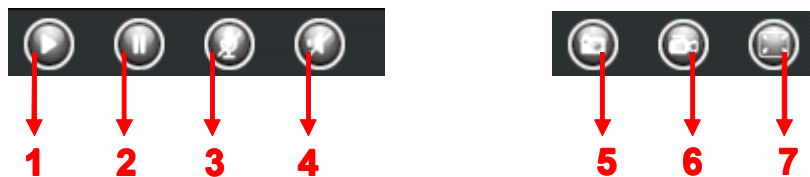
If you have added time and camera name in the video, you can see it in the live window.

Go to **Settings ---Basic settings---Camera name** panel, and you can change another device name. The default device name is anonymous.

Go to **Settings ---Basic settings---Camera time** panel and adjust the device time.


Go to **Settings ---Video---On Screen Display** panel, you can add or no add OSD.


Section9 Play/Stop/ Talk/Audio/ Snap/ Record/ Full screen button




1-----Play Click it to play the video of the camera

2-----Stop Click it to stop the video of the camera

3----- Talk Click the button and the icon will become to , then talk to the microphone that connected with PC, people around the camera can here your voice. Click the icon again and stop talking.

4----- Audio Click this icon, the icon will become to  you can hear the sound around the camera by the earphone or speakers that connected with PC.

5----- Snapshot Click it to make snapshot and it pop-up a window which picture you snapshot, right click in the window and save the picture to anywhere you want.

6----- Record Click the icon  and the camera start recording, you can see a green dot in the live window. Click again and stop recording. The default storage path is C:\IPCamRecord. You can change the storage path: Go to Settings- >Record->Storage Location panel.

7-----Full Screen Click it to make full-screen, or you can double click the surveillance screen to make full-screen. Double click again and exit full-screen.

Onscreen Mouse Control

Right click the mouse and you can adjust the screen ration, full screen and Zoom up.

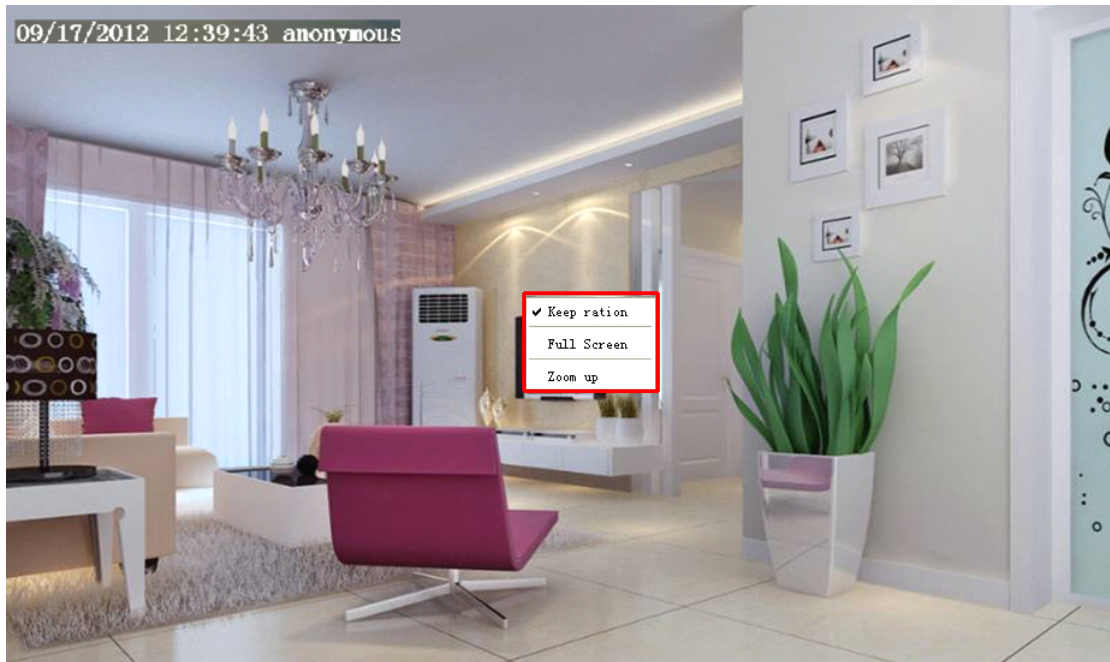


Figure 3.6

Keep ration: Select it and the camera will adjust the size of live window based on the the computer monitor automatically. Sometimes there is a black border around the video, please select Keep ration to get a better visual quality .

Full Screen: Select it and Click it to make full-screen, press ESC and exit full-screen.

Zoom up:

First Method: Here is a convenient and fast solution to Zoom up/down screen by Clicking Video Screen and adjusting Mouse pulley, or by press the [F12] key and click the mouse left button.

Second Method: Click it and the live view will be digital zoomed up, then click Zoom Down and the live view back to original size.

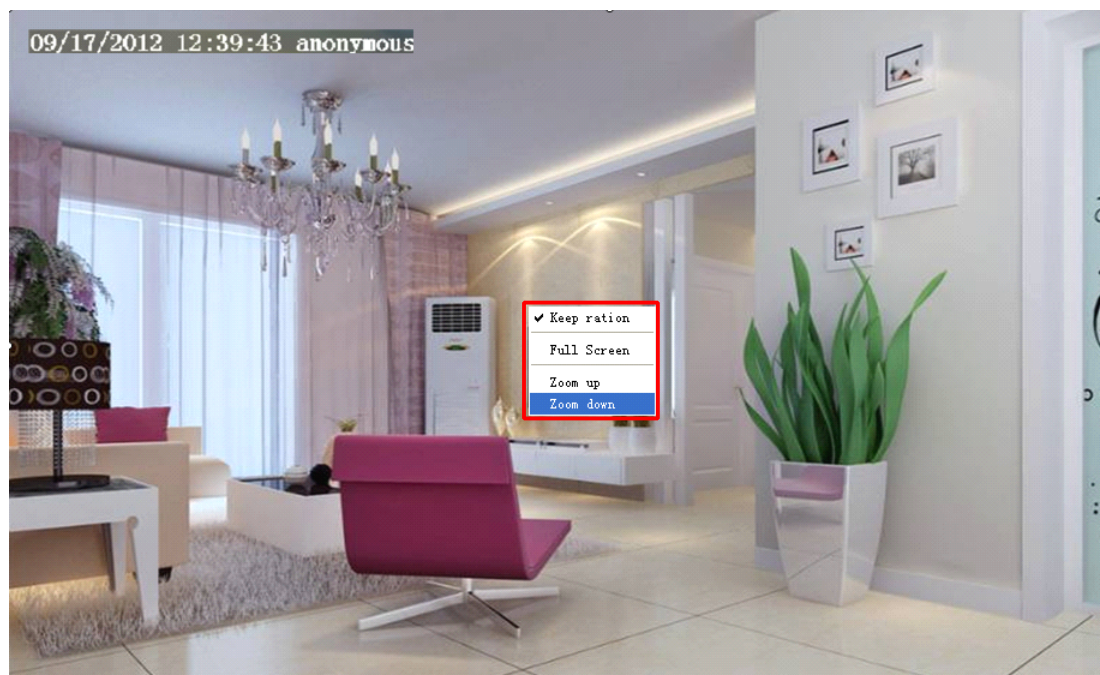


Figure 3.7

When you select the Full Screen, then click right mouse, there is a **Screen PTZ** button.

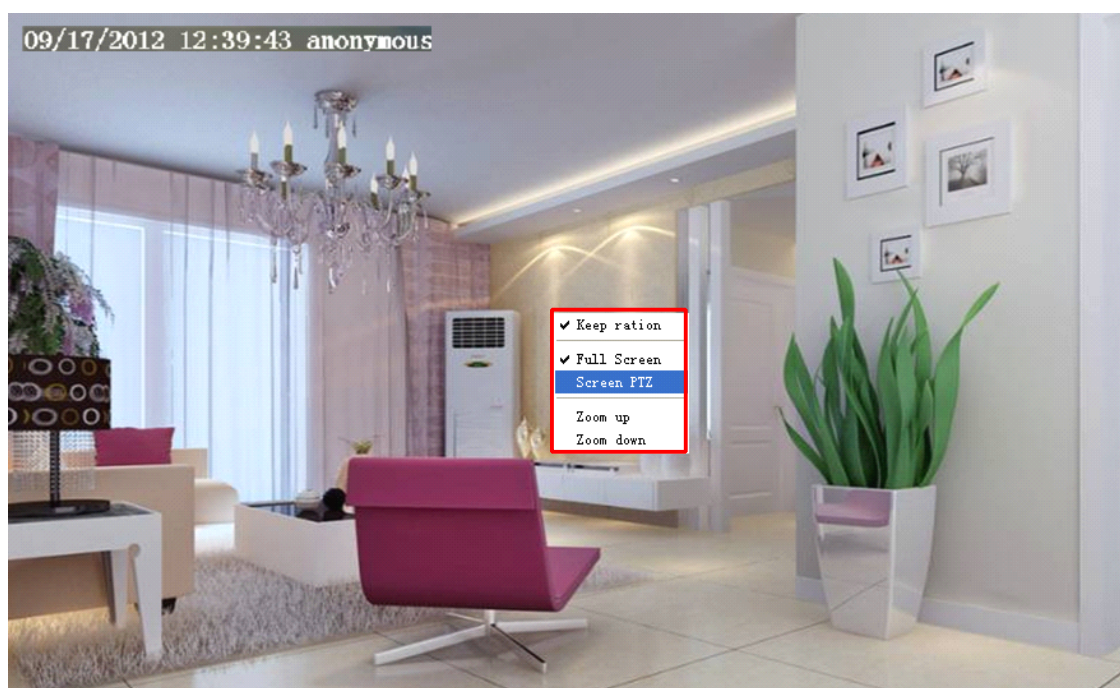


Figure 3.8

Click the **Screen PTZ** button and put the mouse on the screen to indicate the camera move direction you prefer, press the left mouse, the camera will move to the corresponding direction. Loosen the mouse and stop moving. Press Esc button or double click right mouse and cancel the function.

NOTE: For Mac OS, the plugin cannot support Onscreen Mouse Control, so you cannot allow to use it.

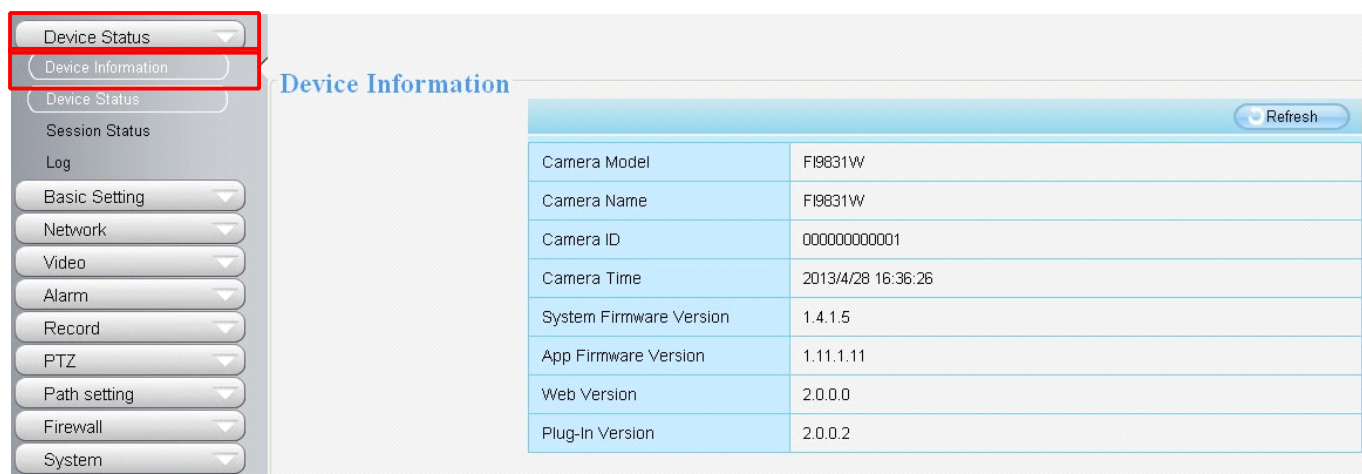
4 Advanced Camera Settings

Click the button **“Settings”**, goes to Administrator Control Panel to make advanced camera settings.

4.1 Device Status

Device Status contains four columns: Device Information, Device Status, Session Status and Log, it will show you various information about your camera.

4.1.1 Device Information



The screenshot shows the 'Device Information' panel. On the left, a sidebar menu has 'Device Status' highlighted with a red box. The main content area is titled 'Device Information' and contains a table with the following data:

Camera Model	FI9831W
Camera Name	FI9831W
Camera ID	000000000001
Camera Time	2013/4/28 16:36:26
System Firmware Version	1.4.1.5
App Firmware Version	1.11.1.11
Web Version	2.0.0.0
Plug-In Version	2.0.0.2

A 'Refresh' button is located in the top right corner of the table area.

Figure 4.1

Camera Model: The camera model no.

Camera Name: The Device Name is a unique name that you can give to your device to help you identify it. Click **Basic Settings** and go to **Camera name** panel where you can change your camera name. The default device name is anonymous.

Camera ID: Display the wired MAC address of your camera. For example Device ID is 000C5D00008, the same MAC ID sticker is found at the bottom of the camera.

Camera Time: The system time of the device. Click **Basic Settings** and go to **Camera time** panel and adjust the time.

System Firmware version: Display the System Firmware version of your camera.

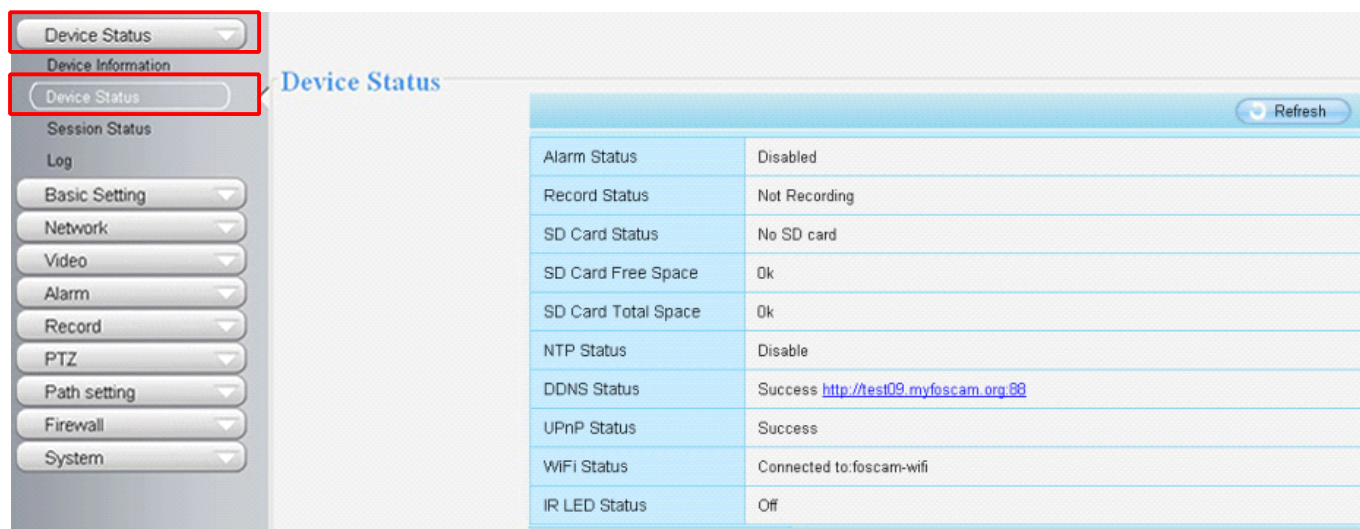
App Firmware version: Display the application firmware version of your camera.

Web version: Display the web UI version of your camera

Plug-in version: Display the plug-in version of your camera

4.1.2 Device Status

On this page you can see device status such as Alarm status/ Record Status ,DDNS status ,WiFi status and so on.



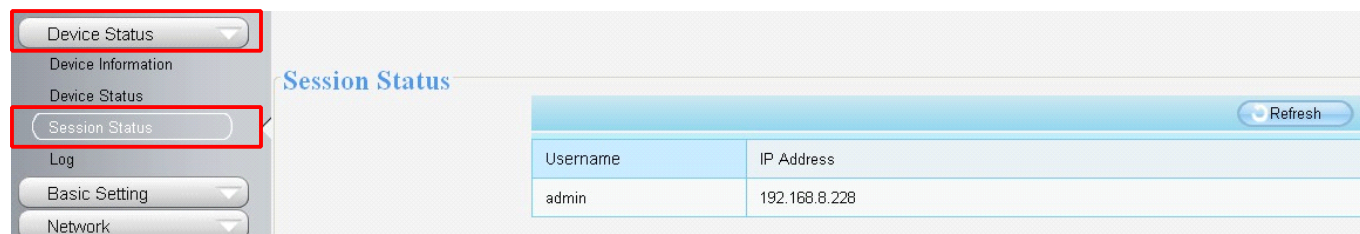
Device Status

Device Status	
Alarm Status	Disabled
Record Status	Not Recording
SD Card Status	No SD card
SD Card Free Space	0k
SD Card Total Space	0k
NTP Status	Disable
DDNS Status	Success http://test09.myfoscam.org/88
UPnP Status	Success
WiFi Status	Connected to:foscam-wifi
IR LED Status	Off

Figure 4.2

4.1.3 Session status

Session status will display who and which IP is visiting the camera now.



Session Status

Session Status	
Username	IP Address
admin	192.168.8.228

Figure 4.3

4.1.4 Log

The log record shows who and which IP address accessed or logout the camera and when.

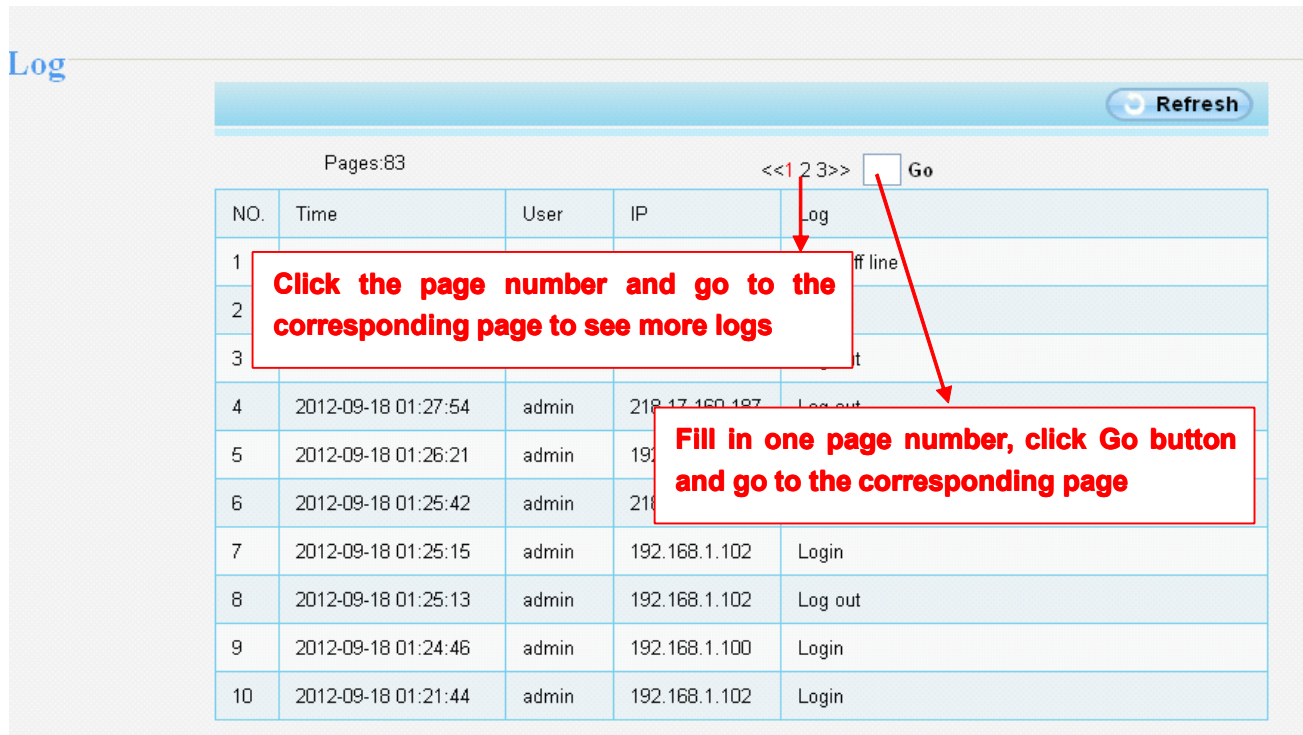


Figure 4.4

Reboot the camera and clear the log records.

4.2 Basic Settings

This section allows you to configure your camera's Name, Time, Mail, User account and Multi-Device.

4.2.1 Camera Name

Default alias is anonymous. You can define a name for your camera here such as apple. Click Save to save your changes. The alias name cannot contain special characters.



Figure 4.5

4.2.2 Camera Time

This section allows you to configure the settings of the internal system clocks for your camera.

Time Zone: (GMT) Greenwich mean time; London, Lisbon, C

Sync with NTP server ☐

NTP Server: time.nist.gov

PC Time: 2012-10-30 07:28:08 PM

Sync with PC

Date Format: YYYY-MM-DD

Time Format: 12-hour

Figure 4.6

Time Zone: Select the time zone for your region from the dropdown menu.

Sync with NTP server: Network Time Protocol will synchronize your camera with an Internet time server. Choose the one that is closest to your camera.

Sync with PC: Select this option to synchronize the date and time of the Network Camera with your computer.

Manually: The administrator can enter the date and time manually. Note select the date and time format.

Click **Save** button and submit your settings.

4.2.3 Mail Settings

If you want the camera to send emails when motion has been detected, here Mail will need to be configured.

The screenshot shows the 'Mail Settings' page. On the left is a sidebar menu with options: Device Status, Basic Setting, Camera Name, Camera Time, Mail Settings, User Accounts, Multi-Camera, Network, Video, Alarm, Record, PTZ, Path setting, Firewall, and System. The 'Mail Settings' option is selected. The main area is titled 'Mail Settings' and contains a 'Save' button (labeled 5) and a 'Refresh' button. Below these is an 'Enable' checkbox which is checked. A table of settings follows, with red boxes and arrows indicating specific fields: 1 points to the SMTP Server, Port, and Security section; 2 points to the SMTP Username; 3 points to the SMTP Password; 4 points to the First Receiver; and 6 points to the 'Test' button. The settings table includes fields for SMTP Server (smtp.gmail.com), SMTP Port (25), Transport Layer Security (STARTTLS), Need Authentication (Yes), SMTP Username (cuiyao93@gmail.com), SMTP Password (masked), Sender E-mail (cuiyao@gmail.com), and four Receiver fields (First Receiver: yaoyao@163.com, others empty).

Figure 4.7

1----- SMTP Server/ Port /Transport Layer Security Enter SMTP server for sender. **SMTP** port is usually set as 25. Some SMTP servers have their own port, such as 587 or 465, and Transport Layer Security usually is None. If you use Gmail, Transport Layer Security must be set to TLS or STARTTLS and SMTP Port must be set to 465 or 25 or 587, which port you choose should be decided by which Transport Layer Security you select.

2-----SMTP Username/ password ID account and password of the sender email address

3----- Sender E-mail Mailbox for sender must support SMTP

4----- Receiver Mailbox for receiver need not support SMTP,you can set 4 receivers

5-----Save Click Save to take effect

6-----Test Click Test to see if Mail has been successfully configured.

Click **Test** to see if Mail has been successfully configured.

Save Refresh

Enable ☒

SMTP Server	smtp.gmail.com	
SMTP Port	25	
Transport Layer Security	STARTTLS	G-Mail only supports TLS at Port 465 and STARTTLS at Port 587 or 25.
Need Authentication	No	
SMTP Username	yaoyao@gmail.com	
SMTP Password	••••••••	Test Success → Test result
Sender E-mail	yaoyao@gmail.com	
First Receiver	yaoyao@163.com	
Second Receiver		
Third Receiver		
Fourth Receiver		

Figure 4.8

If the test success, you can see the **Success** behind the Test, at the same time the receivers will receive a test mail.



Figure 4.9

If the test fails with one of the following errors after clicking **Test**, verify that the information you entered is correct and again select **Test**.

- 1) Cannot connect to the server
- 2) Network Error. Please try later
- 3) Server Error
- 4) Incorrect user or password

- 5) The sender is denied by the server. Maybe the server need to authenticate the user, please check it and try again
- 6) The receiver is denied by the server. Maybe because of the anti-spam privacy of the server
- 7) The message is denied by the server. Maybe because of the anti-spam privacy of the server
- 8) The server does not support the authentication mode used by the device

4.2.4 User Accounts

Here you can create users and set privilege, **visitor**, **operator** or **administrator**. The default user account is admin, with a blank password. You can enter the users accounts of visitor 、operator and administrator Manually.



Figure 4.10

How to change the password of administrator?

Firstly, select the account of administrator, then select “Change password”, enter the old password and the new password, lastly click modify to take effect.

Refresh

NO.	Username	Privilege
1	admin	Administrator
2		
3		
4		
5		
6		
7		
8		

Username:

Password:

New password:

Privilege:

☒ Change password

Figure 4.11

How to add account ?

Select one blank column, then enter the new user name, password and privilege, last click Add to take effect. You can see the new added account on the Account list.

Refresh

NO.	Username	Privilege
1	admin	Administrator
2		
3		
4		
5		
6		
7		
8		

Username:

Password:

Privilege:

☐ Change password

Figure 4.12

The screenshot shows a web interface for managing users. On the left is a table with columns 'NO.', 'Username', and 'Privilege'. The second row, containing '2', 'Coco', and 'Visitor', is highlighted with a red border. To the right of the table is a form for editing the selected user. It includes a 'Refresh' button at the top right. The 'Username' field contains 'Coco' and the 'Privilege' dropdown is set to 'Visitor'. There is an unchecked checkbox for 'Change password' and a 'Delete' button at the bottom.

NO.	Username	Privilege
1	admin	Administrator
2	Coco	Visitor
3		
4		
5		
6		
7		
8		

Username:

Privilege: Visitor

☐ Change password

Figure 4.13

Delete : Select the account which you want to delete, then click Delete button to take effect.

Note: The default admin account cannot be deleted, but you can add other administrator users.

4.2.5 Multi-Camera

If you want to view multi-surveillance screens on one window, you need to login one camera, and set it as the main device, and do Multi-Device Settings, add other cameras to the first one camera. Before you do multi-cams settings, you need to assign different port such as 81, 82, 83, 84, 85, 86, 87, 88 to the cameras if there is 8 cams installed.

The firmware within the camera can support a maximum of 9 devices monitoring all at the same time. This page you can both add FOSCAM MJPEG and H.264 series cameras to the first camera and view multi-surveillance screen on one window.

Add cameras in LAN

In Multi-Device Settings page, you can see all devices searched in LAN. The 1st Device is the default one. You can add more cameras in the list in LAN for monitoring. The camera's software supports up to 9 IP Cameras online simultaneously. Click **The 2nd Device** and click the item in the **Device List in LAN**, the Alias, Host and Http Port will be filled in the boxes below automatically. Enter the correct username and password then click **Add**. Add more cameras in the same way.

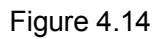
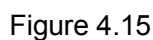


Figure 4.14

Camera Model: Our Company produces two series cameras: MJPEG and H.264. Here will show you which series the camera belongs to.



Back to **Surveillance Windows**, and click Four Windows option, you will see four cameras you added.

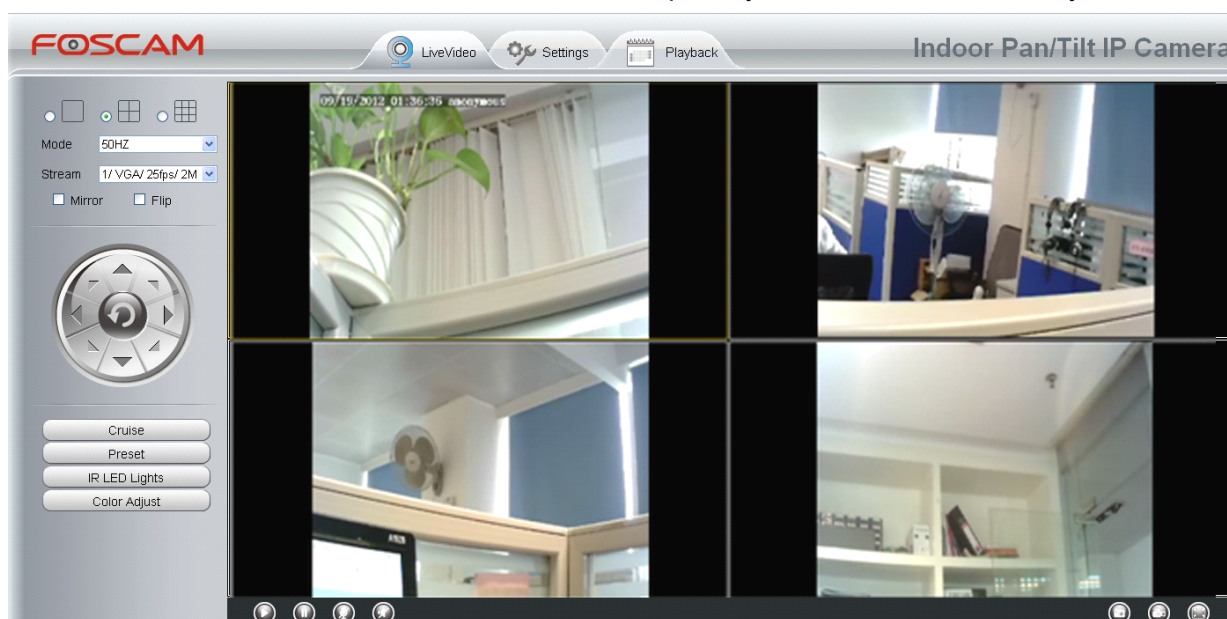


Figure 4.16

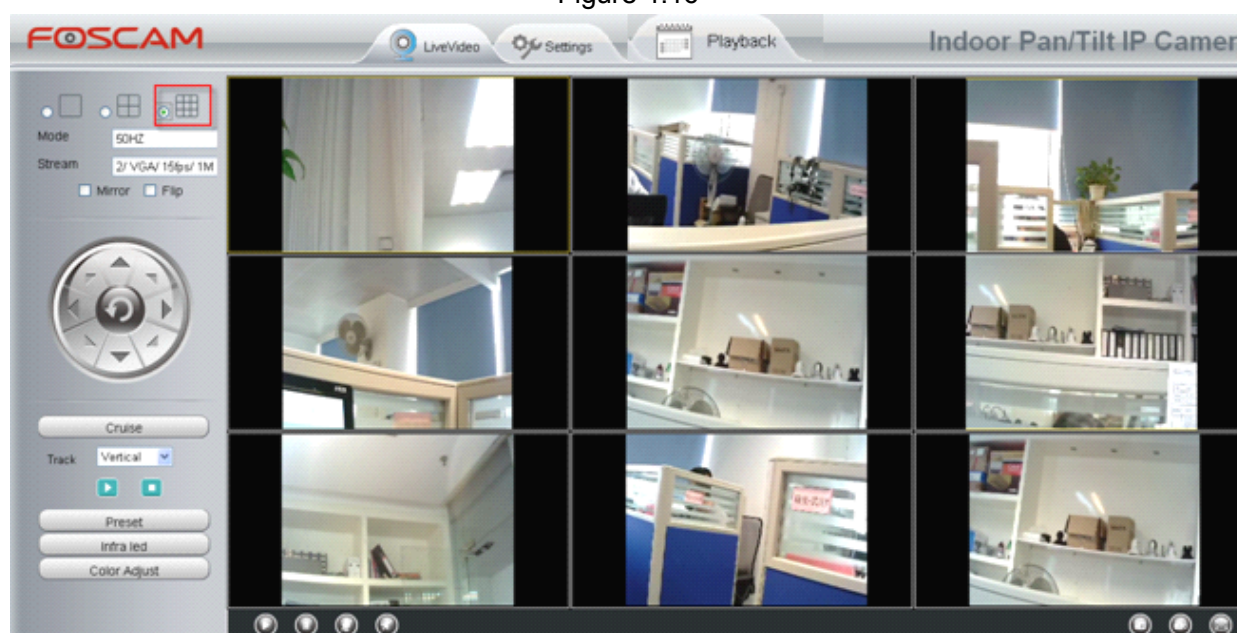


Figure 4.17

Add cameras in WAN

If you want to view all cameras via the internet(remote computer), you will need to add them using DDNS domain name. Firstly, make sure all of the cameras you added can be accessed through the internet. (**Read How to configure DDNS settings in chapter 4.3.3**)

Login to the first camera using a DDNS domain name and port.

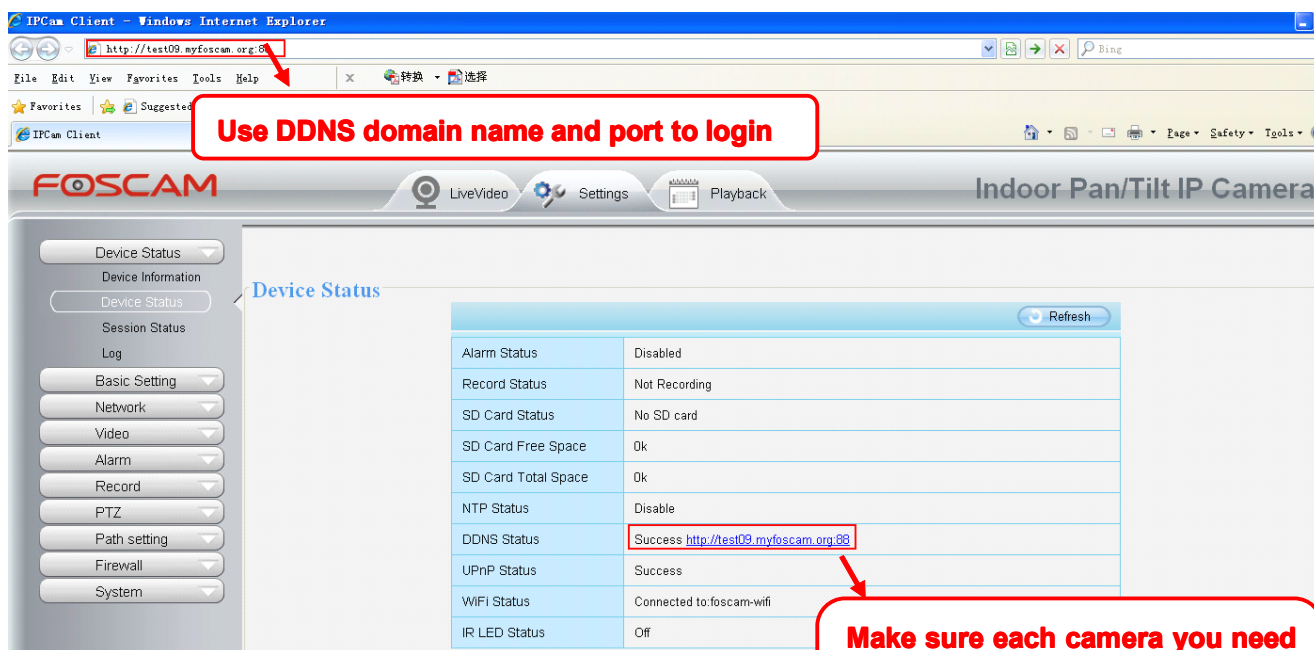


Figure 4.18

Click **Multi-Device Settings**. Choose **The 2nd Device**. Fill in the 2nd camera's name, DDNS domain name, port number. Enter user name and password and then choose Add. (Figure 4.19)

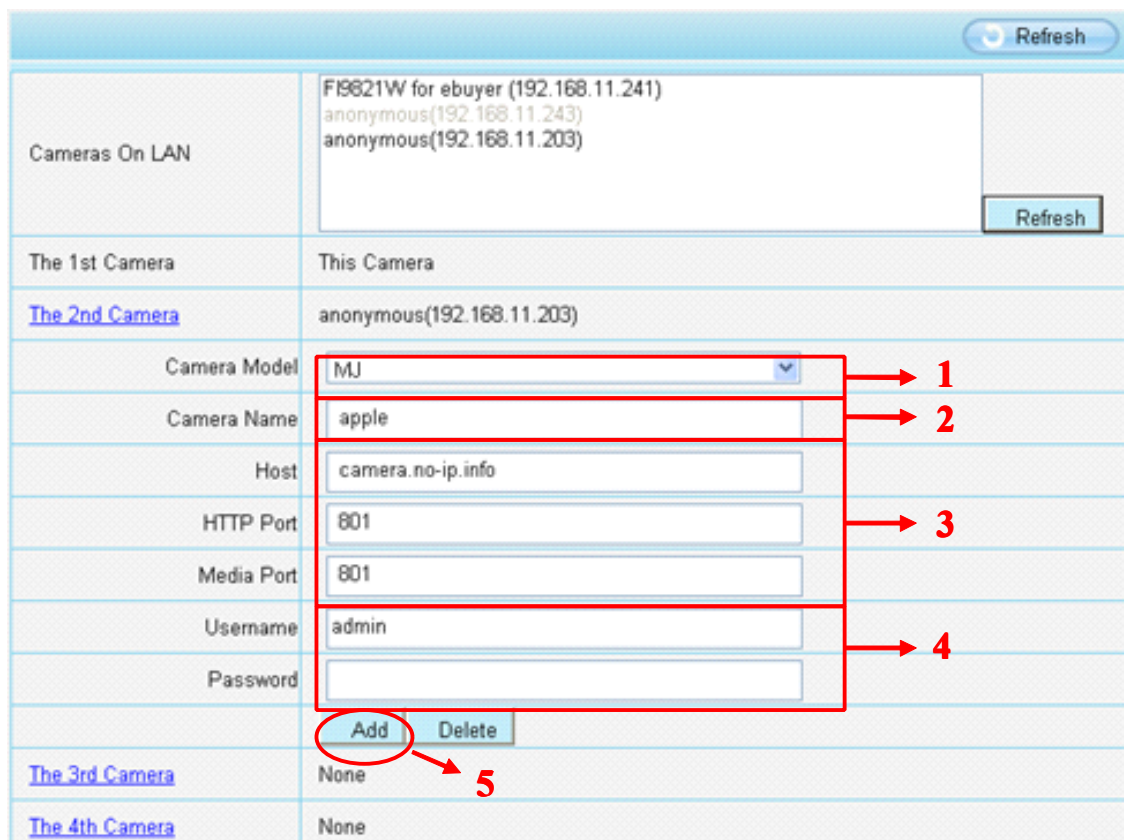


Figure 4.19

1----- The camera model: MJ or H264.

2----- The 2nd camera's name

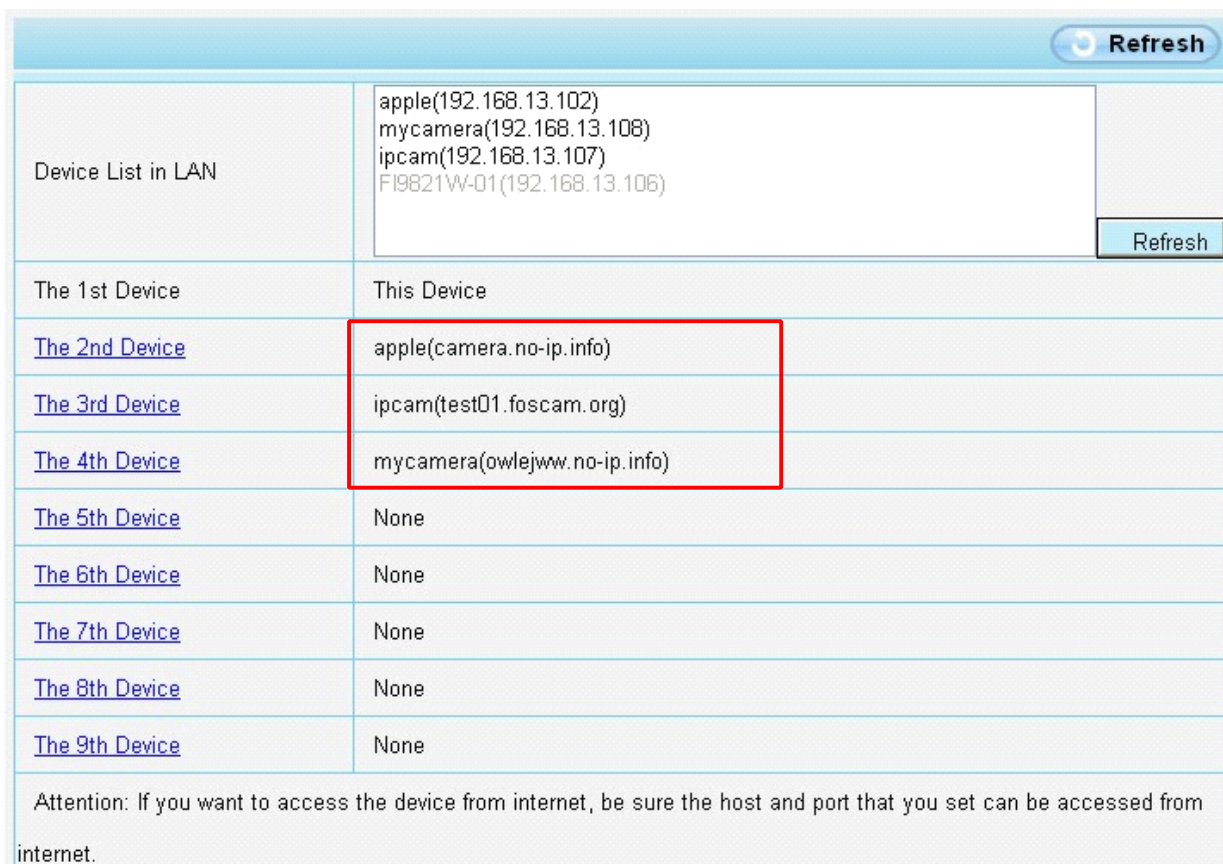
3----- Fill in the 2nd camera's DDNS host not LAN IP

NOTE: The MJ series have the same HTTP Port no. and Media Port no.

4 ---- Enter the 2nd camera's user name and password

5---- Click Add button and to take effect

NOTE: Here the Host must be entered as the second camera's DDNS domain name, not its LAN IP.



The screenshot shows a web interface with a 'Device List in LAN' section at the top, displaying a list of devices: apple(192.168.13.102), mycamera(192.168.13.108), ipcam(192.168.13.107), and F19821W-01(192.168.13.106). Below this is a table for configuring devices. The table has two columns: 'The 1st Device' and 'This Device'. The first row shows 'The 1st Device' as 'The 2nd Device' and 'This Device' as 'apple(camera.no-ip.info)'. The second row shows 'The 3rd Device' and 'ipcam(test01.foscam.org)'. The third row shows 'The 4th Device' and 'mycamera(owlejwww.no-ip.info)'. The remaining rows (5th to 9th) show 'None'. A red box highlights the first three rows of the table. At the bottom, there is an attention note: 'Attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.'

The 1st Device	This Device
The 2nd Device	apple(camera.no-ip.info)
The 3rd Device	ipcam(test01.foscam.org)
The 4th Device	mycamera(owlejwww.no-ip.info)
The 5th Device	None
The 6th Device	None
The 7th Device	None
The 8th Device	None
The 9th Device	None

Attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.

Figure 4.20

Return to video window. You will see all of the cameras accessible through the internet.

When you are away from home, you can use the first camera's DDNS domain name and port to view all the cameras via internet.

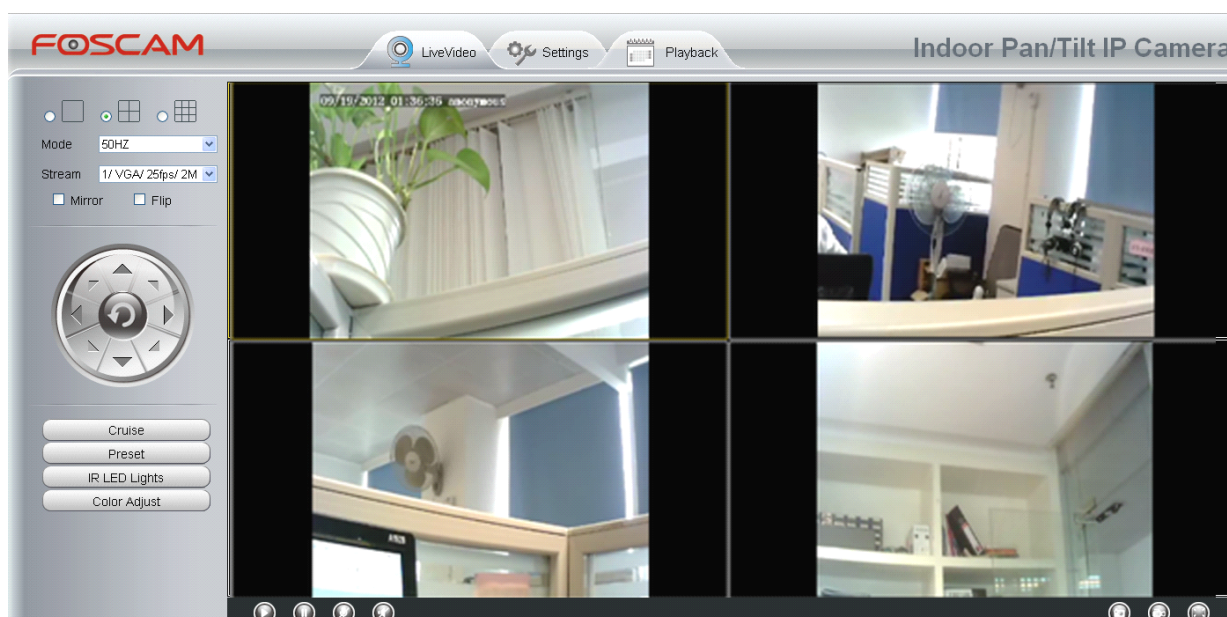


Figure 4.21

4.3 Network

This section will allow you to configure your camera's IP, PPPoE, DDNS, Wireless Settings, UPnP and Port.

4.3.1 IP Configuration

If you want to set a static IP for the camera, please go to **IP Configuration** page. Keep the camera in the same subnet of your router or computer.

<input type="button" value="Save"/> <input type="button" value="Refresh"/>	
Obtain IP From DHCP <input type="checkbox"/>	
IP Address	192.168.0.109
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
Primary DNS Server	192.168.0.1
Secondary DNS Server	202.96.134.133

Note: Once you save your settings, the camera will restart.

Figure 4.22

Changing settings here is the same as using the IP Camera Tool. (Figure 4.23/4.24)

It is recommended that you use the subnet mask, gateway and DNS server from your locally attached PC. If you don't know the subnet mask, gateway and DNS server, you can check your computer's local area

connection as follows:

Control Panel → Network Connections → Local Area Connections → Choose Support → Details.

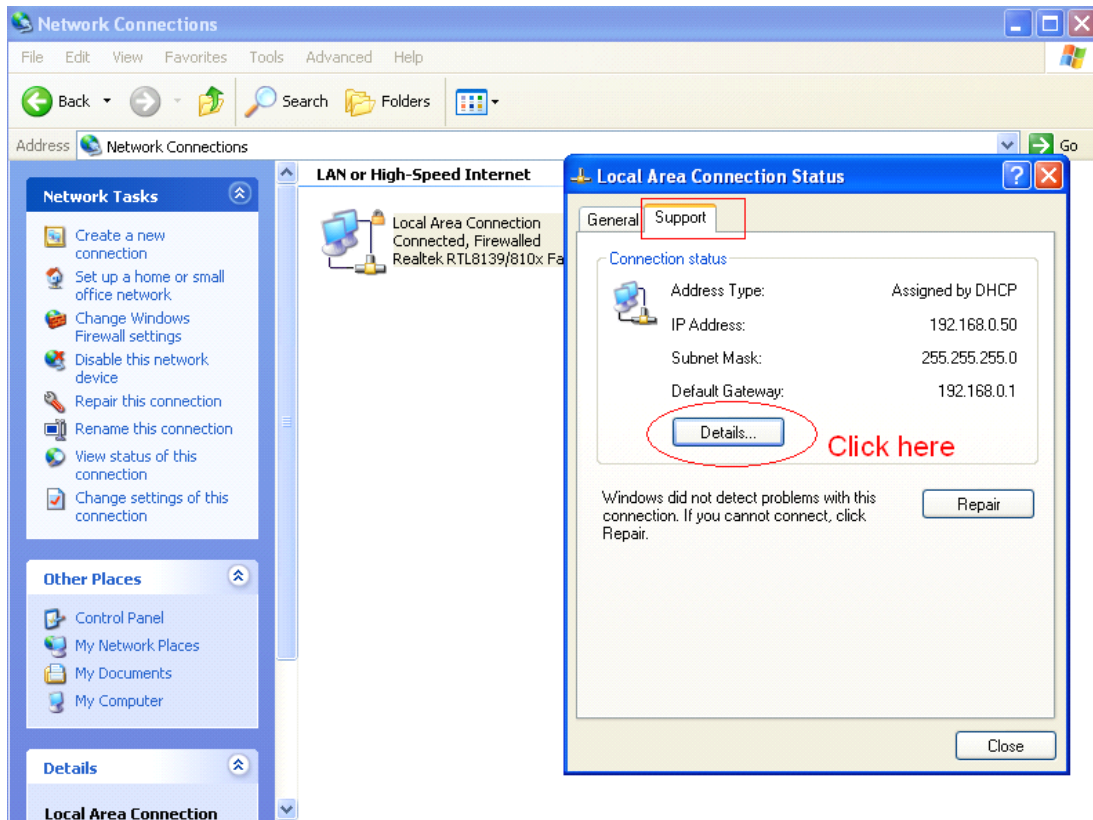


Figure 4.23

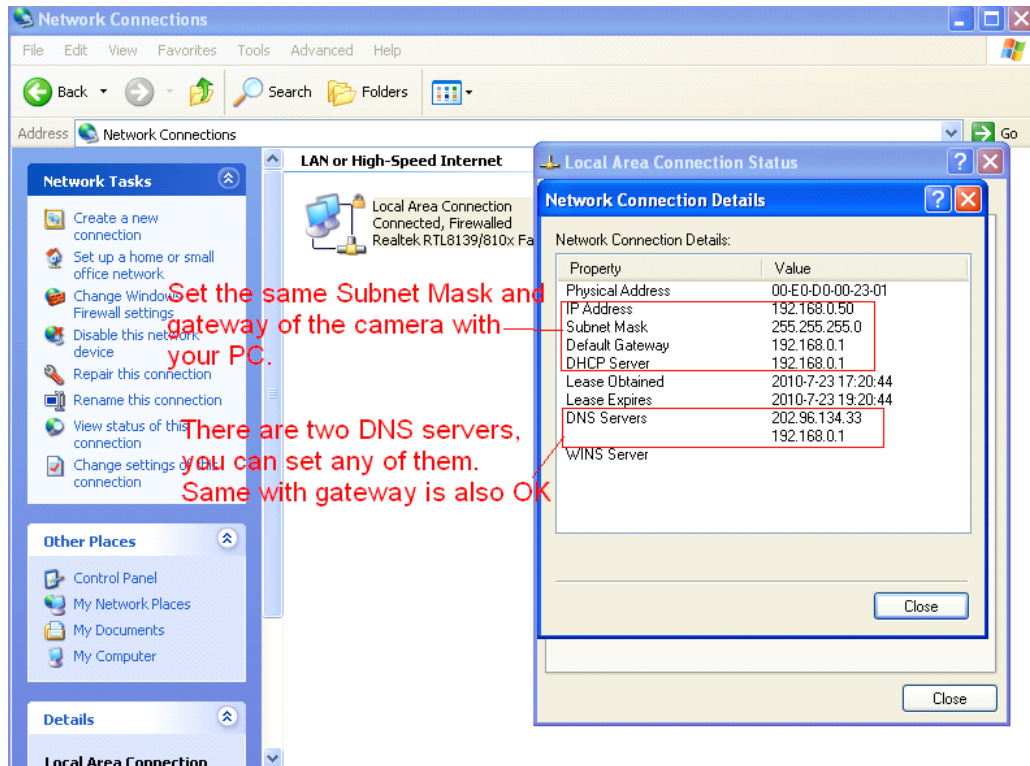


Figure 4.24

If you don't know the DNS server, you can use the same settings as the Default Gateway.

4.3.2 PPPoE

If you are using a PPPoE connection, enable it and enter the User Name and Password for your PPPoE account.

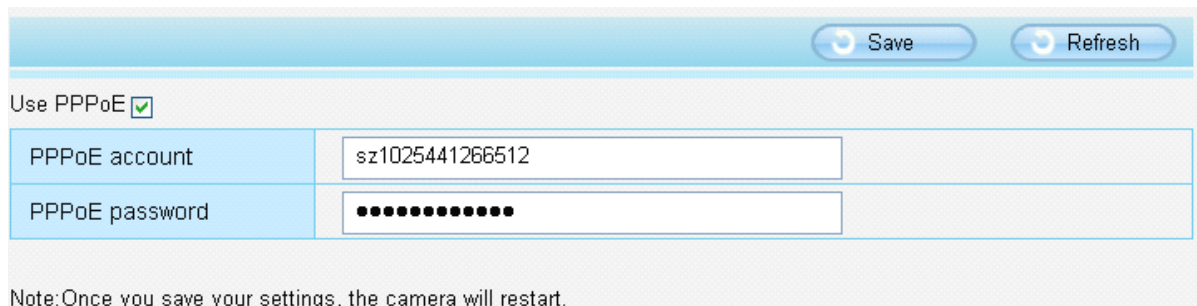


Figure 4.25

4.3.3 DDNS

FOSCAM camera has embedded a unique DDNS domain name when producing, and you can directly use the domain name, you can also use the third party domain name.

FOSCAM domain name

Here take **test09.myfoscam.org** for example. Go to option of **DDNS** on the **Settings->Network** panel, you can see the domain name.

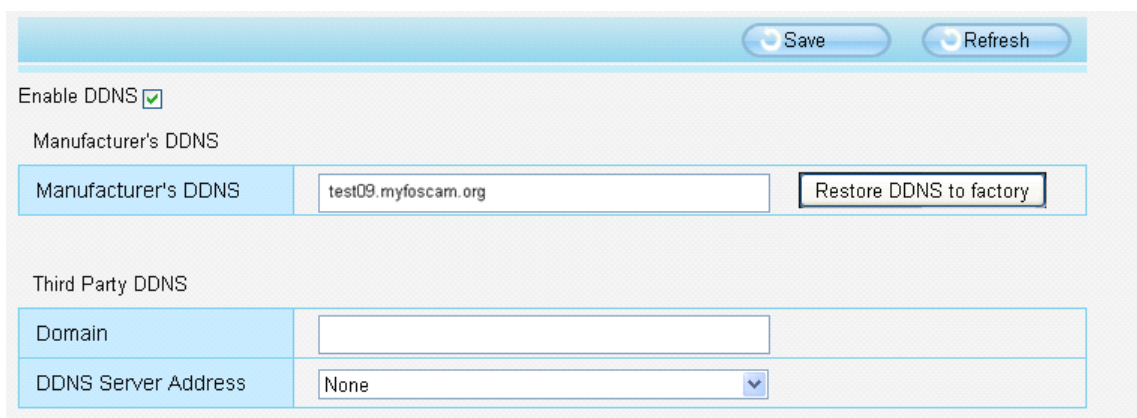


Figure 4.26

Now you can use [http:// Domain name + HTTP Port](http://Domain name + HTTP Port) to access the camera via internet.

Take hostname **test09.myfoscam.org** and HTTP Port no. 800 for example, the accessing link of the camera via internet would be [http:// test09.myfoscam.org:800](http://test09.myfoscam.org:800)

Restore DDNS to factory: If you have configured Third Party DDNS successfully, but you want to use

Manufacturer's DDNS again , here click this button and start Manufacturer's DDNS Service.

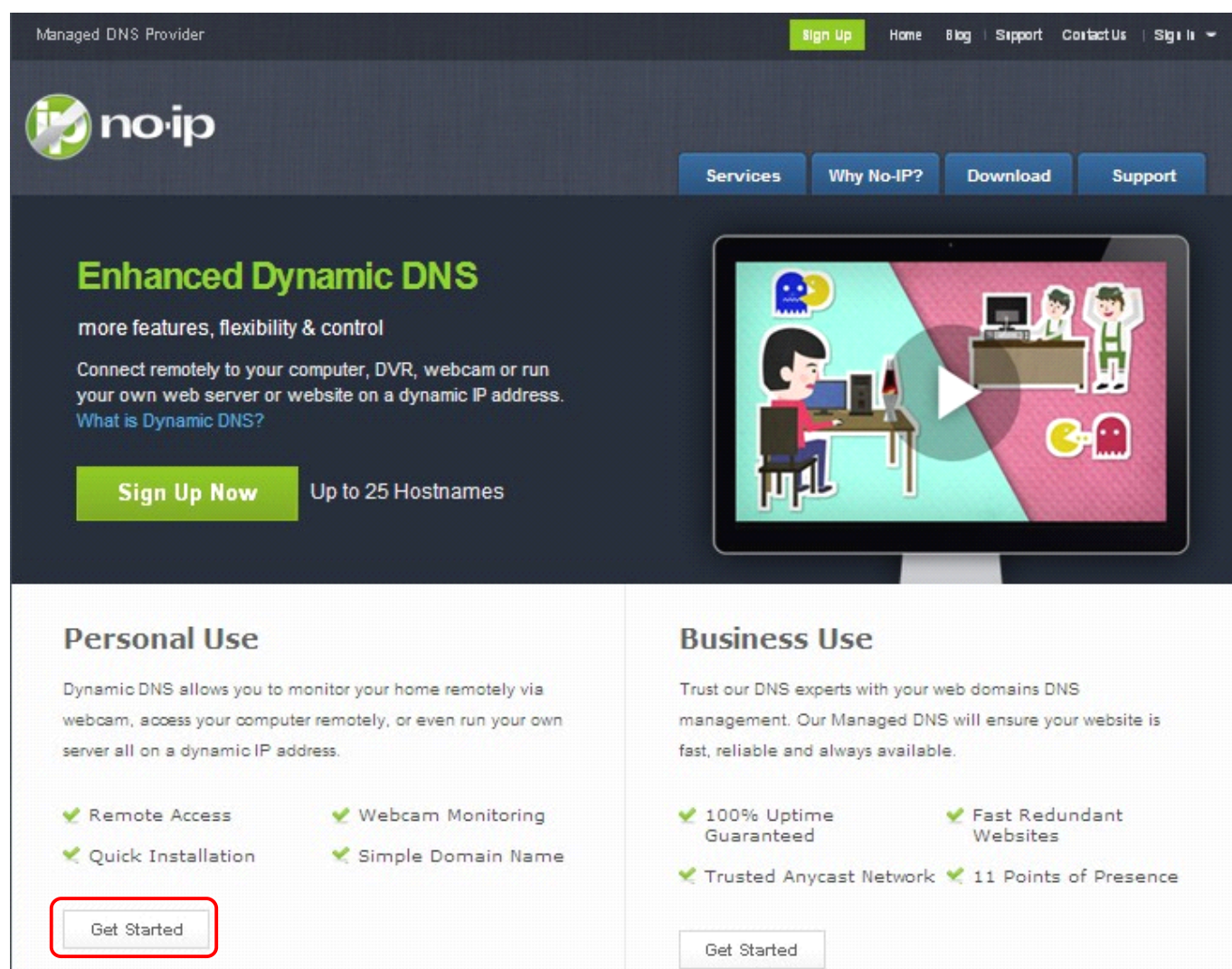
Third Party Domain Name Settings

User can also use third part DDNS, such as www.no-ip.com ,www.3322.com

Here take www.no-ip.com for example:

① **Step 1, Go to the website www.no-ip.com to create a free hostname**

Firstly: Login on www.no-ip.com and click No-IP Free to register.



Managed DNS Provider

Sign Up Home Blog Support Contact Us Sign In

Services Why No-IP? Download Support

Enhanced Dynamic DNS

more features, flexibility & control

Connect remotely to your computer, DVR, webcam or run your own web server or website on a dynamic IP address.
[What is Dynamic DNS?](#)

Sign Up Now Up to 25 Hostnames

Personal Use

Dynamic DNS allows you to monitor your home remotely via webcam, access your computer remotely, or even run your own server all on a dynamic IP address.

- ✔ Remote Access
- ✔ Webcam Monitoring
- ✔ Quick Installation
- ✔ Simple Domain Name

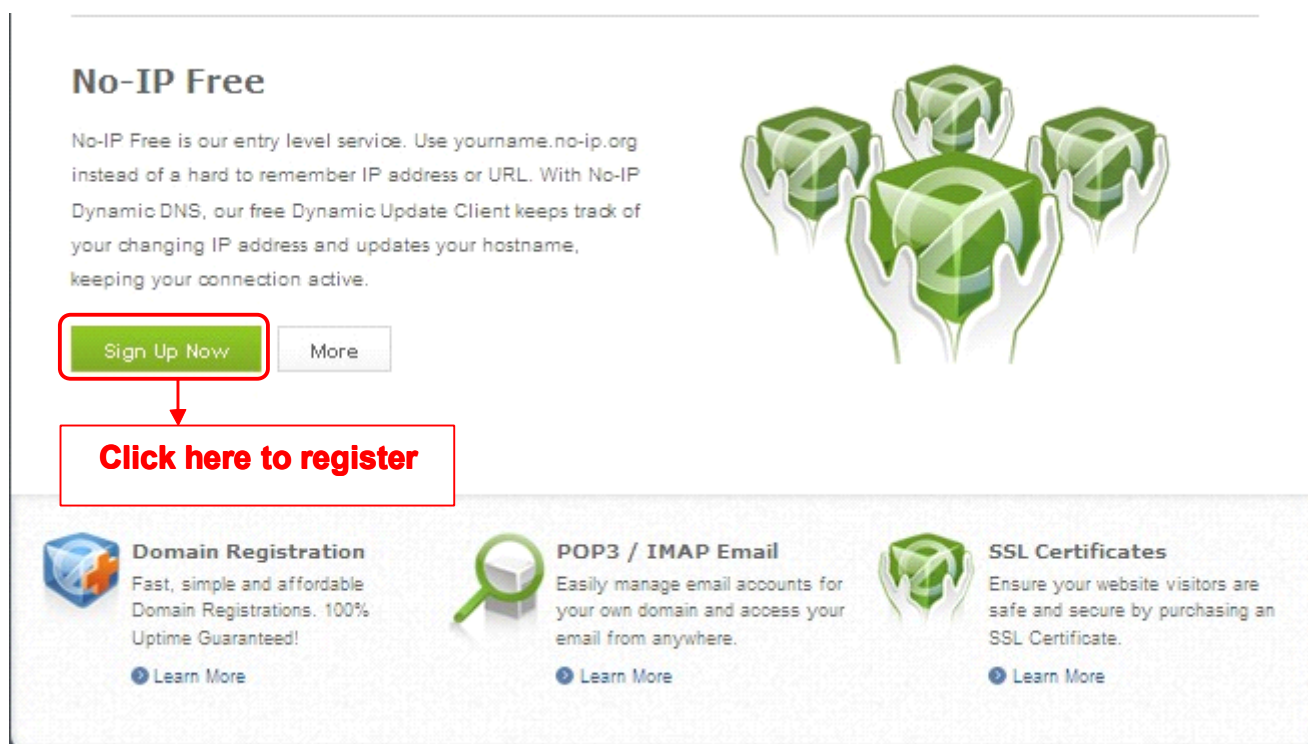
Get Started

Business Use

Trust our DNS experts with your web domains DNS management. Our Managed DNS will ensure your website is fast, reliable and always available.

- ✔ 100% Uptime Guaranteed
- ✔ Fast Redundant Websites
- ✔ Trusted Anycast Network
- ✔ 11 Points of Presence

Get Started




No-IP Free


No-IP Free is our entry level service. Use yourname.no-ip.org instead of a hard to remember IP address or URL. With No-IP Dynamic DNS, our free Dynamic Update Client keeps track of your changing IP address and updates your hostname, keeping your connection active.

[Sign Up Now](#) [More](#)


Click here to register



Domain Registration
Fast, simple and affordable Domain Registrations. 100% Uptime Guaranteed!
[Learn More](#)



POP3 / IMAP Email
Easily manage email accounts for your own domain and access your email from anywhere.
[Learn More](#)



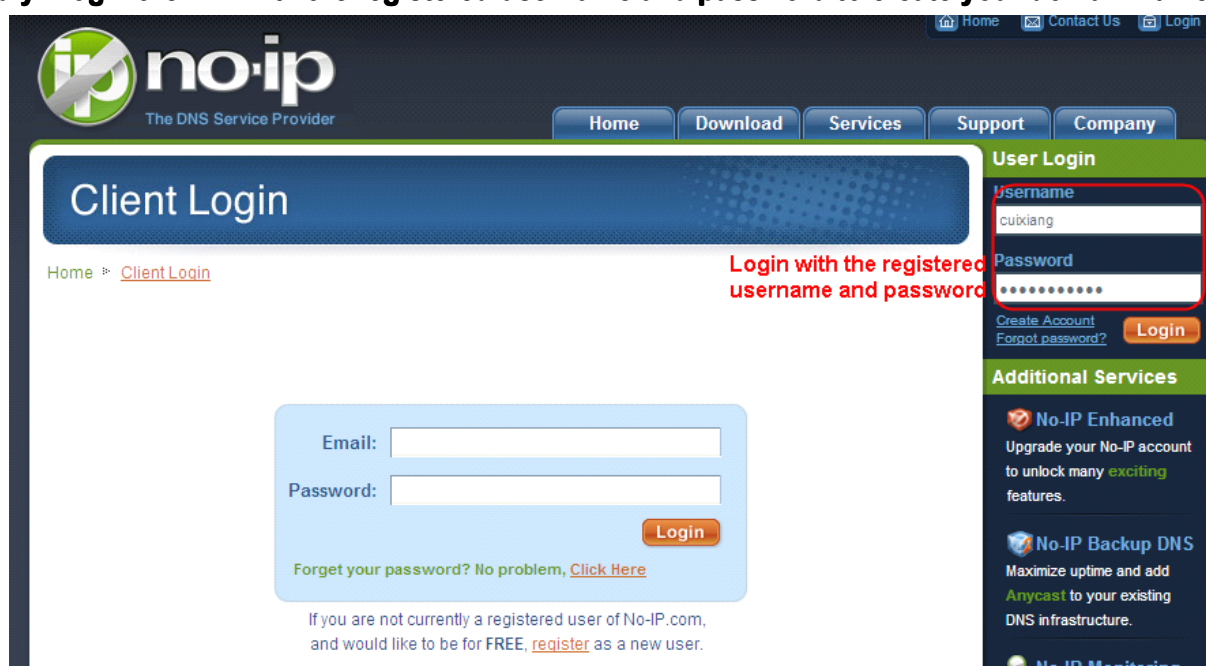
SSL Certificates
Ensure your website visitors are safe and secure by purchasing an SSL Certificate.
[Learn More](#)

Figure 4.27

Please register an account step by step according to instructions on www.no-ip.com

After registration, please login your email which used to register. You will receive an email from website, please click the link to activate your ACCOUNT as indicated in email.

Secondly: Login the link with the registered username and password to create your domain name.



Client Login

Home > [Client Login](#)

Email:
Password:
[Login](#)

[Forgot your password? No problem, Click Here](#)

If you are not currently a registered user of No-IP.com, and would like to be for FREE, [register](#) as a new user.

User Login

Username:
Password:
[Create Account](#) [Forgot password?](#) [Login](#)

Additional Services

- No-IP Enhanced**
Upgrade your No-IP account to unlock many exciting features.
- No-IP Backup DNS**
Maximize uptime and add Anycast to your existing DNS infrastructure.
- No-IP Monitoring**

Figure 4.28



Figure 4.29

Please create the domain name step by step according to instructions on www.no-ip.com

Step 2, DO DDNS Service Settings within the Camera

Please set **DDNS Settings** within the camera by **hostname**, a **user name** and **password** you've got from www.no-ip.com

Take **hostname** **ycxgwp.no-ip.info**, user name **foscam**, password **foscam2012** for example.

Firstly, goes to option of **DDNS Settings** on the administrator panel.

Secondly, select No-IP as a server..

Thirdly, fill **foscam** as DDNS user, fill password **foscam2012** as DDNS password, fill **ycxgwp.no-ip.info** as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

Fourthly, after the restart, login the camera, and go to option of **Device Status** on the administrator panel, and check if the DDNS status is successful.

If failed, please double check if you have input the correct hostname, user name, and password, and try to redo the settings.

Note

If you have set Third Party DDNS successfully, the Foscam Domain Name will be invalid. The Third Party

DDNS and the Foscam Domain Name cannot work at the same time, the last time you configured will take effect.

② Do port forwarding within the router

Example: The camera's LAN IP address is <http://192.168.8.100:2000> , Media port no. is 9200.

Firstly, login the router, goes to the menu of **Port Forwarding or Port Trigger** (or named Virtue Server on some brands of router). **Take Linksys brand router as an example, Login the router, and goes to Applications & Gaming->Single Port Forwarding.**

Secondly, Create a new column by LAN IP address & HTTP Port No. of the camera within the router showed as below.

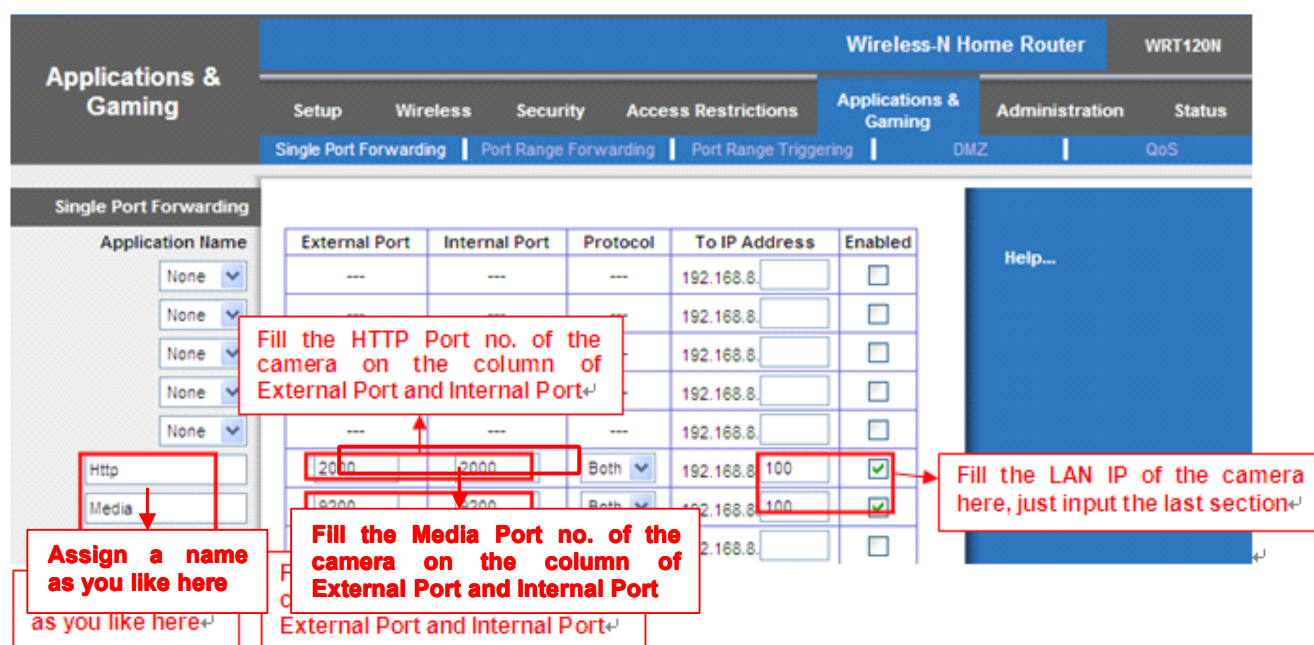


Figure 4.30

③ Use domain name to access the camera via internet

After the port forwarding is finished, you can use the **domain name+ http no.** to access the camera via internet. Take hostname **ycxgwp.no-ip.info** and **http no. 2000** for example, the accessing link of the camera via internet would be **[http:// ycxgwp.no-ip.info:2000](http://ycxgwp.no-ip.info:2000)**

4.3.1 WiFi

Step 1: Choose “**Settings**” on the top of the camera interface, and go to the “**Network**” panel on the left side of the screen, then click “**Wireless Settings**.”

Click the **Scan** button and the camera will detect all wireless networks around the area. It should also display your router in the list (Figure 4.31).

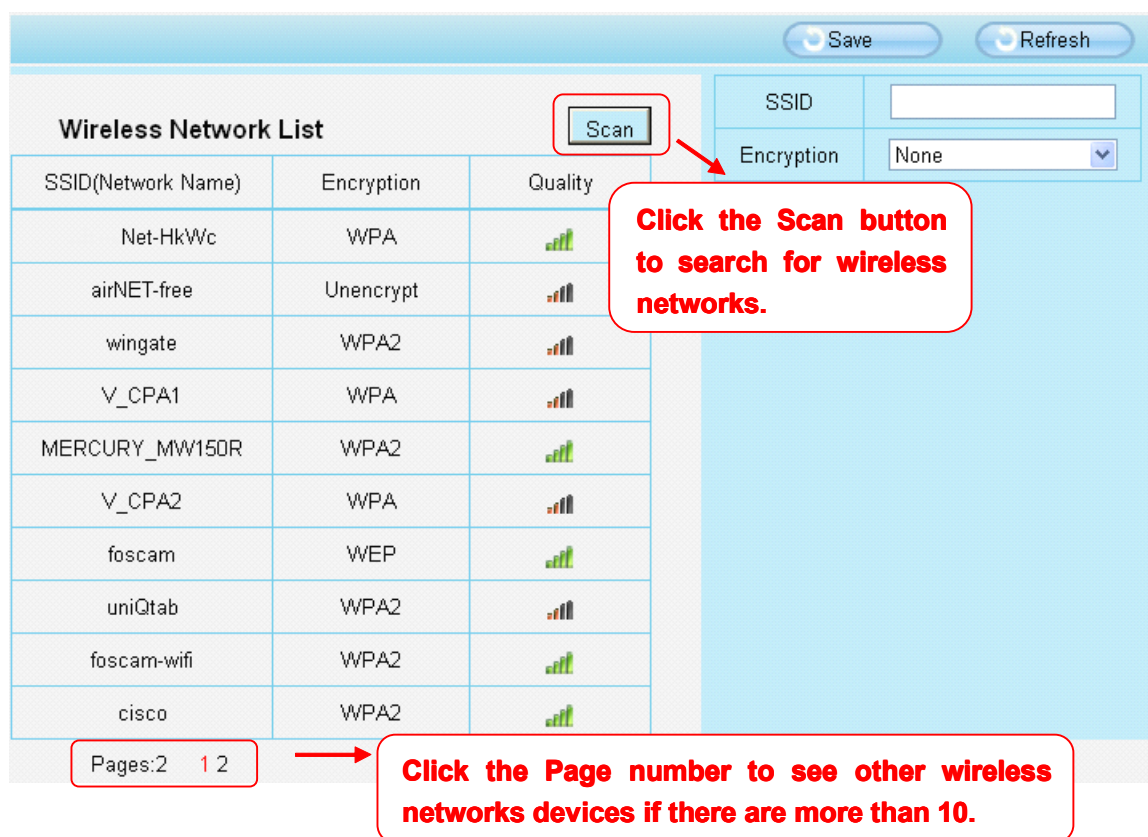


Figure 4.31

Step 2: Click the SSID (name of your router) in the list, the corresponding information related to your network, such as the name and the encryption, will be filled into the relevant fields automatically.

You will only need to fill in the password of your network. Make sure that the SSID, Encryption and the password you filled in are exactly the same for your router.

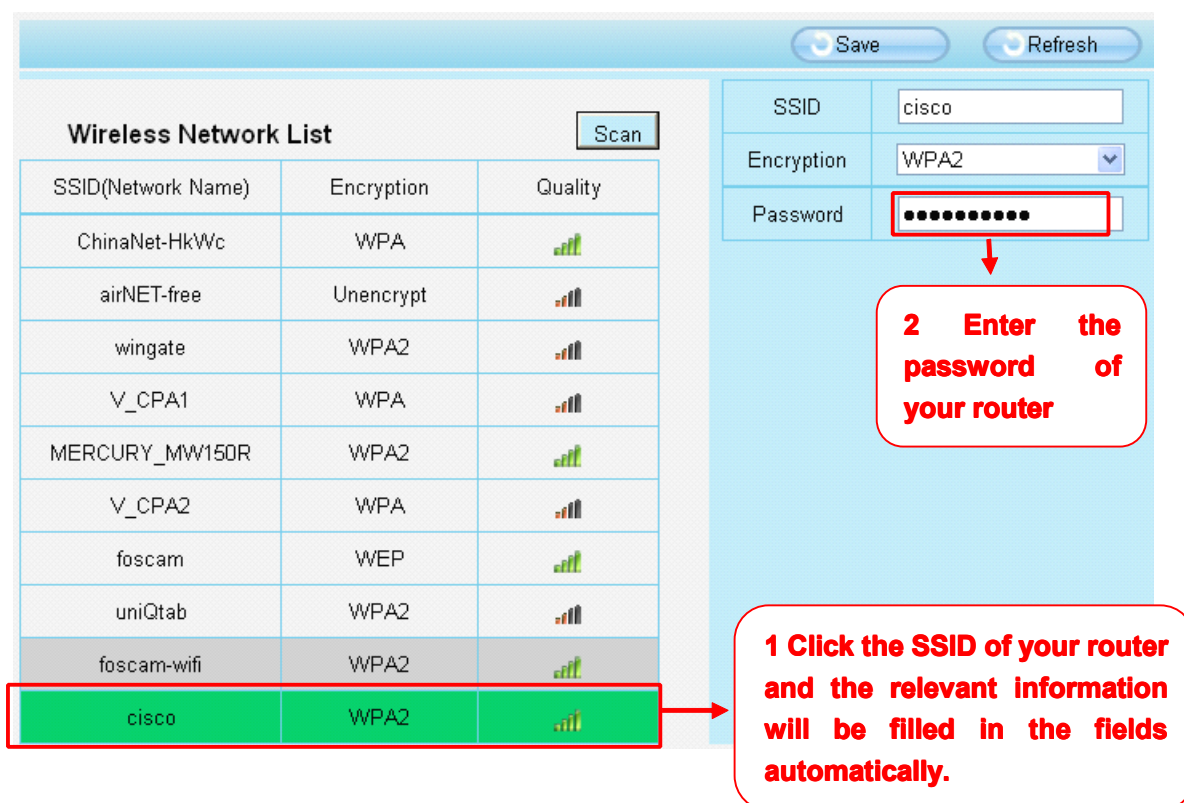


Figure 4.32

Step 3: Please click on the **Save** button after all settings have been entered and disconnect the network cable. Never shut down the power of the camera until the IP camera is able to connect to the wireless network.

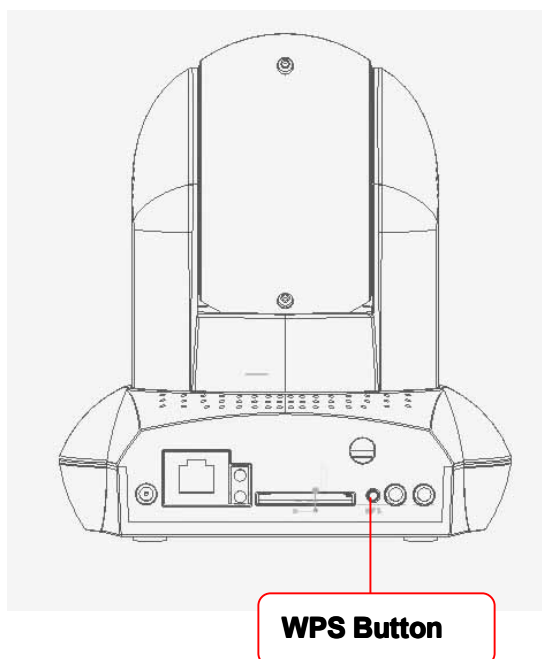
The LAN IP address will disappear on the window of IP Camera Tool when the camera is configuring a wireless connection. Wait about 1 minute, the camera should obtain a wireless connection, and the LAN IP of the camera will show again on the window of the IP Camera Tool. The IP address may have changed after the camera receives a wireless connection; we recommend setting a static local IP address if this IP address changes by right clicking the camera in IP Camera Tools, setting a static IP, and pushing OK (see Figure4.36). Congratulations! You have set up the wireless connection of the camera successfully.

Note

If you fail to make a wireless connection, please refer to your seller or contact us directly for assistance.

WPS (Wi-Fi Protected Set-up)

Step 01) Press and hold the WPS button for **two seconds**.



Step 02) Press the WPS button on your router **within 60 seconds**. The WPS button is usually on the back or side of your router. On some routers, you may need to log in to the web interface and click on an on-screen button to activate the WPS feature. If you are not sure where the WPS buttons is on your router, please refer to your router's User Manual.

The camera will automatically create a secure wireless connection to your router. If you have plugged in the network cable, please plug it out. The IP Camera Tool will search the camera's LAN IP. Make sure the PC and the camera share the same subnet.

Note

The security mode of router cannot be WEP, or else the WPS settings may be failed.

4.3.2 UPnP

 A screenshot of a web interface for configuring UPnP. At the top right are 'Save' and 'Refresh' buttons. Below them is a section titled 'Enable UPnP' with a dropdown menu currently set to 'Yes'.

Figure 4.33a

The default UPnP status is closed. You can enable UPnP, then the camera's software will be configured for port forwarding. Back to the "Device Status" panel, you can see the UPnP status:

Device Status		Refresh
Alarm Status	Disabled	
Record Status	Not Recording	
NTP Status	Disable	
DDNS Status	Success http://aa2022.myfoscam.org:8000	
UPnP Status	Success	
WIFI Status	Not connected	
IR LED Status	Off	

Figure 4.33b

The camera's software will be configured for port forwarding. There may be issues with your routers security settings, and sometimes may error. We recommend you configure port forwarding manually on your router (Figure 4.30).

4.3.3 Port

This camera supports HTTP Port and Media Port. The Media port is used to view the camera's video stream, HTTP Port is used to access the camera remotely. If you want to access the camera and view the video, the Media Port and the HTTP Port must both be configured correctly.

HTTP port / Media port: By default, the HTTP and Media port is set to 88. Also, they can be assigned with another port number between 1 and 65535. But make sure they can't not be conflict with other existing ports like 25, 21.

	Save	Refresh
HTTP Port	<input type="text" value="88"/>	
Media Port	<input type="text" value="88"/>	
HTTPS Port	<input type="text" value="443"/>	

Figure 4.34

Another way to change the HTTP port no.

Step 1: Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP

address, and click on "Network Configuration", this brings up the network configuration box as shown in Figure 4.35 and 4.36.

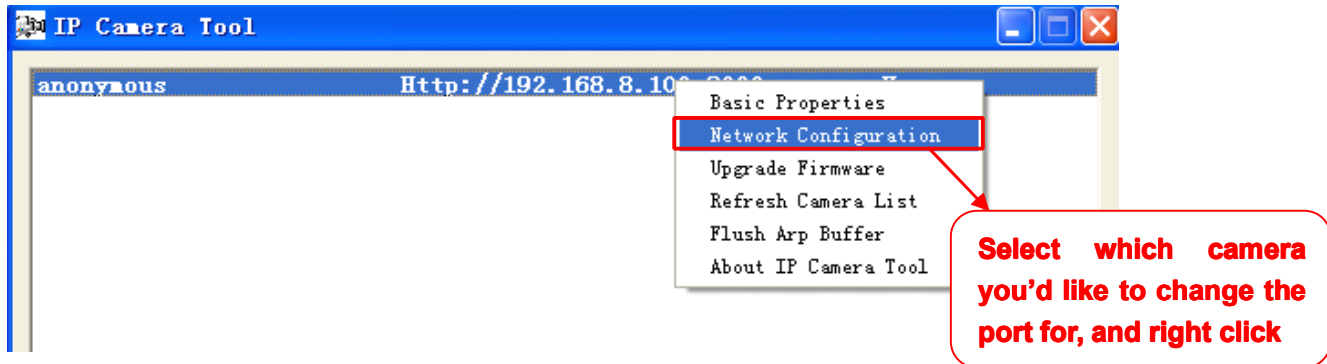


Figure 4.35

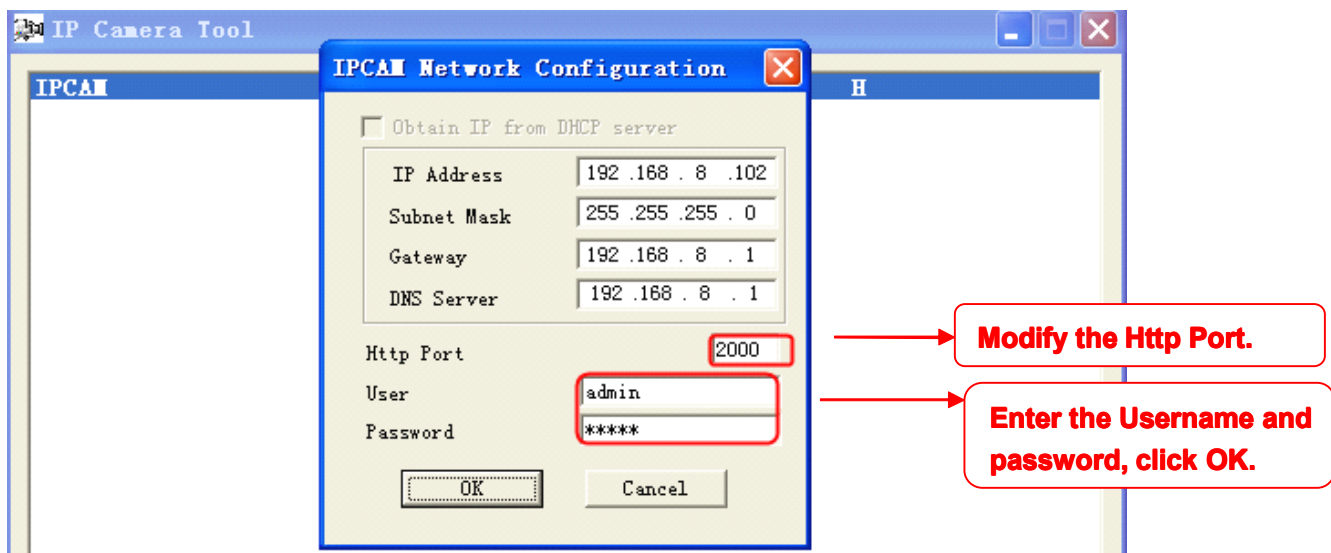
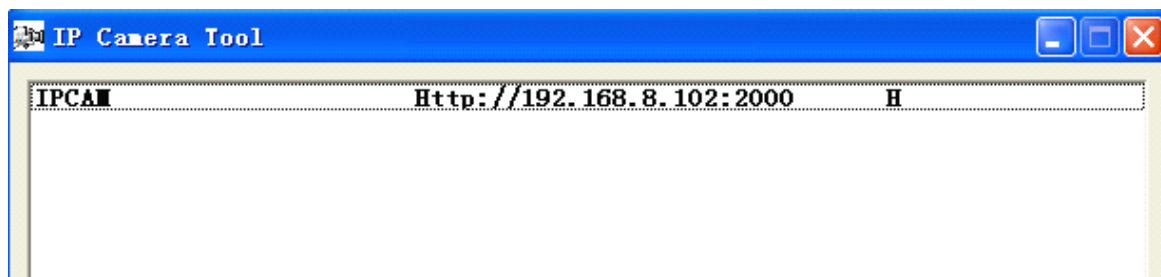


Figure 4.36

Step 2: Enter the username and password of the Administrator (default username is admin with a blank password), and click "OK" to apply changes.

Step 3: Wait around 10 seconds, you'll see that the camera's LAN IP address has changed. In our example it was changed to 2000, so we see http://192.168.8.102:2000 in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of http://192.168.8.102:2000. This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that

a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!



Note: 1 Http port and Media port must be different.

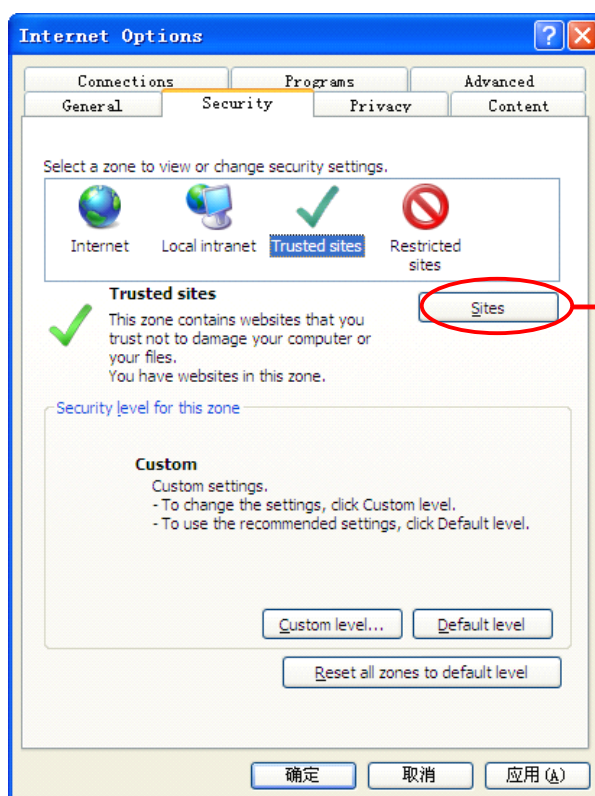
If the camera cannot be accessed, please make sure the port forwarding is succeed.

HTTPS port: The default port is 443. You can use the url to access the camera: **https:// IP + HTTPS port.**

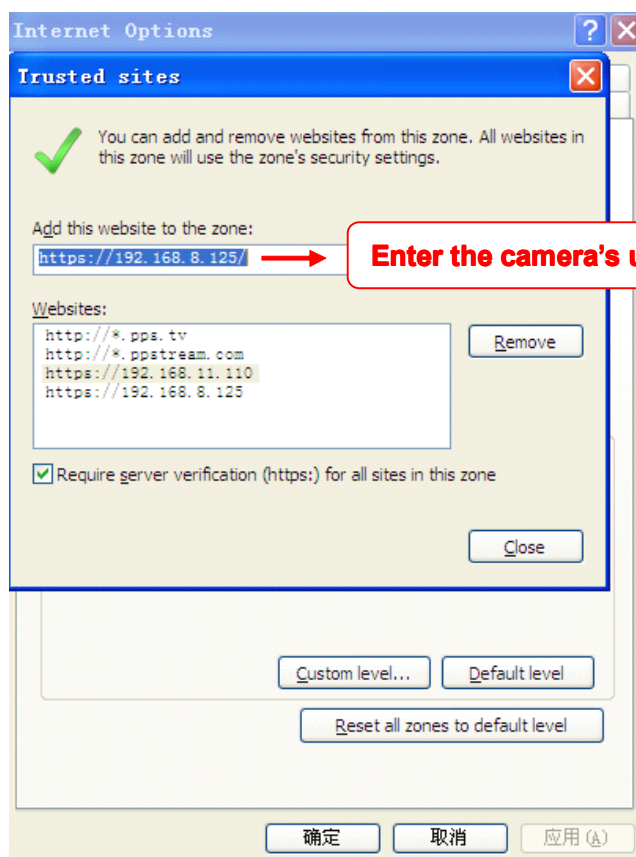
Sometimes you need to add the url to the Trusted Sites.

Open Internet Explorer if it is not already opened. Click on **Tools**, then click **Internet Options**.

Next, click the **Security** tab, then click the **Trusted sites** button.

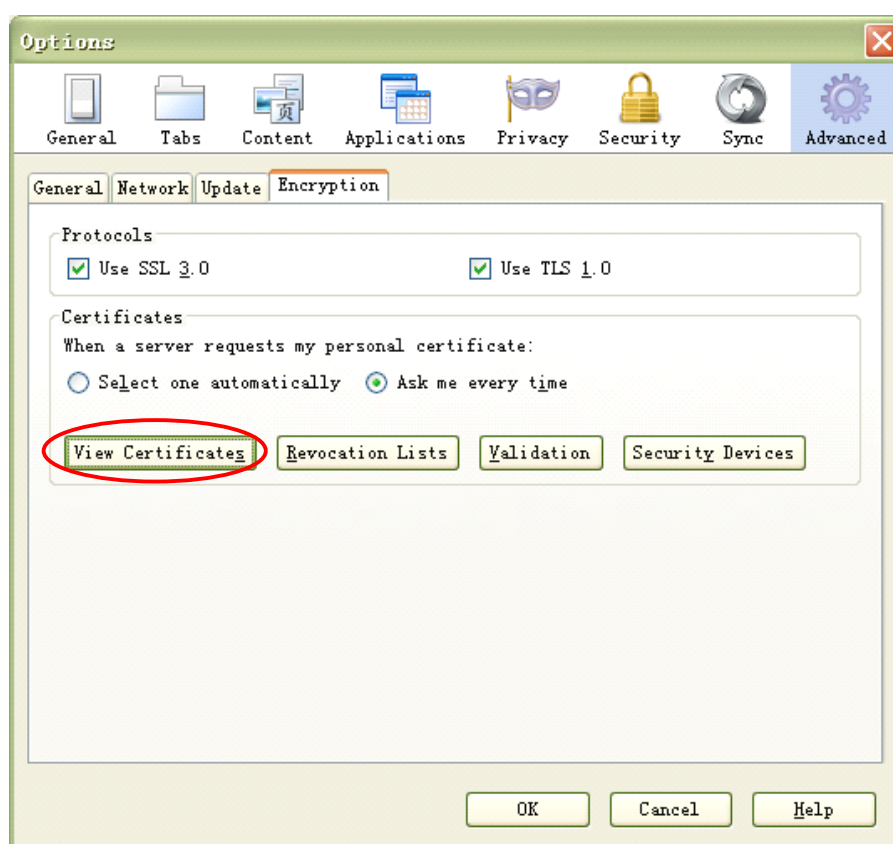


Click **Sites** then you can add the camera's https web site to the internet explorer.

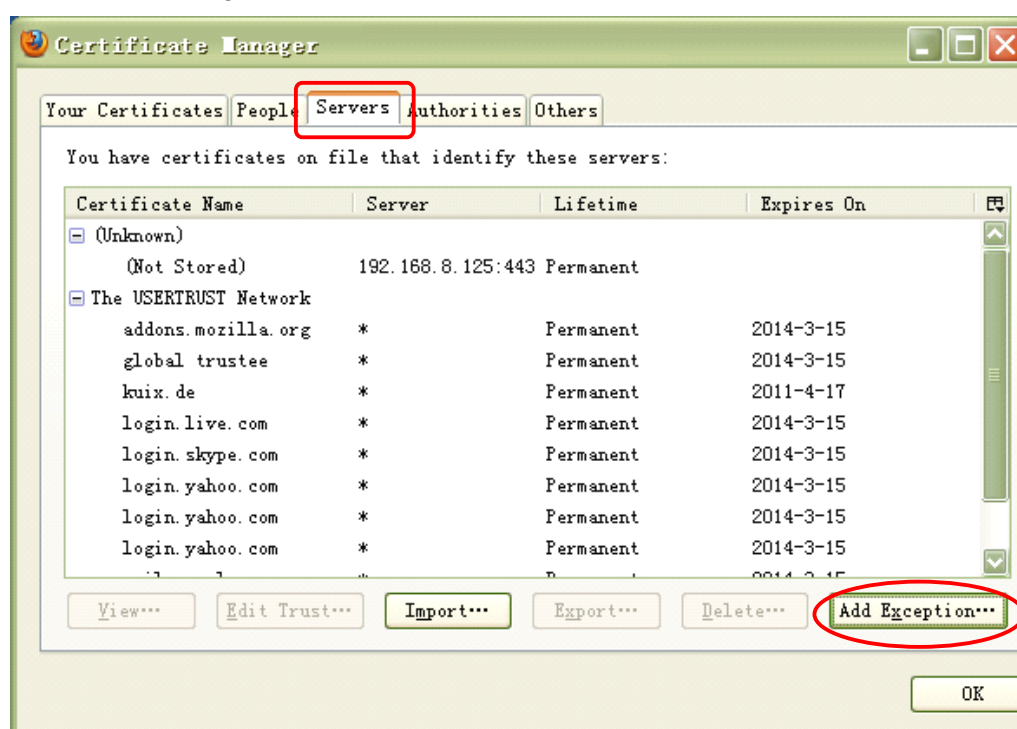


For **Firefox**, you can add the trusted as the following way:

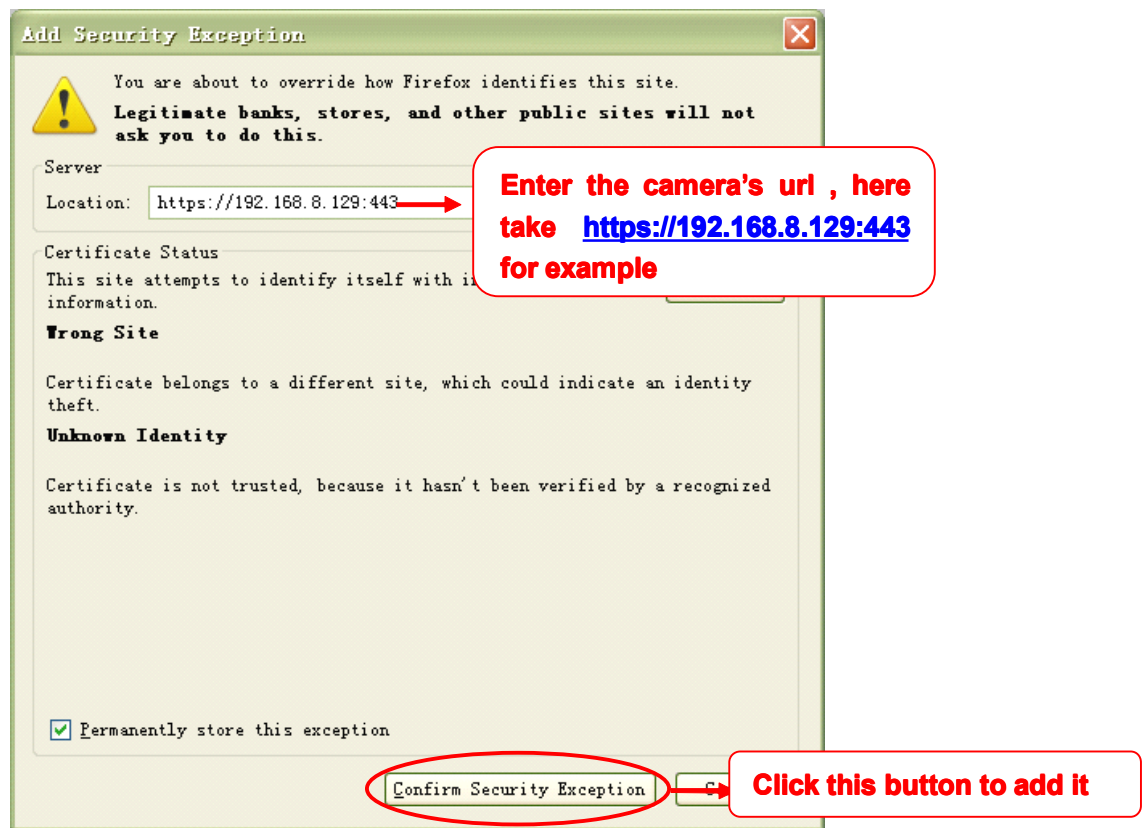
Tools ---- Options ---- Advanced --- View Certificates --- Servers



Click **View Certificates**, and go to **Servers** option.



Go to **Add Exception** panel.



RTSP function

RTSP URL **rtsp:// [user name][:password]@IP:HTTP port number/videosream**

The part in the square brackets may be omitted.

user name & password:

The user name and password to access the camera. This part can be omitted.

IP:

WAN or LAN IP address.

Videostream:

Here support three mode: videoMain, videoSub and audio. When the network speed is bad, here you had better select videoSub. If you select audio, you can only hear the sound but cannot see the video.

For example:

IP: 192.168.1.11

HTTP Port number: 88

User name: admin

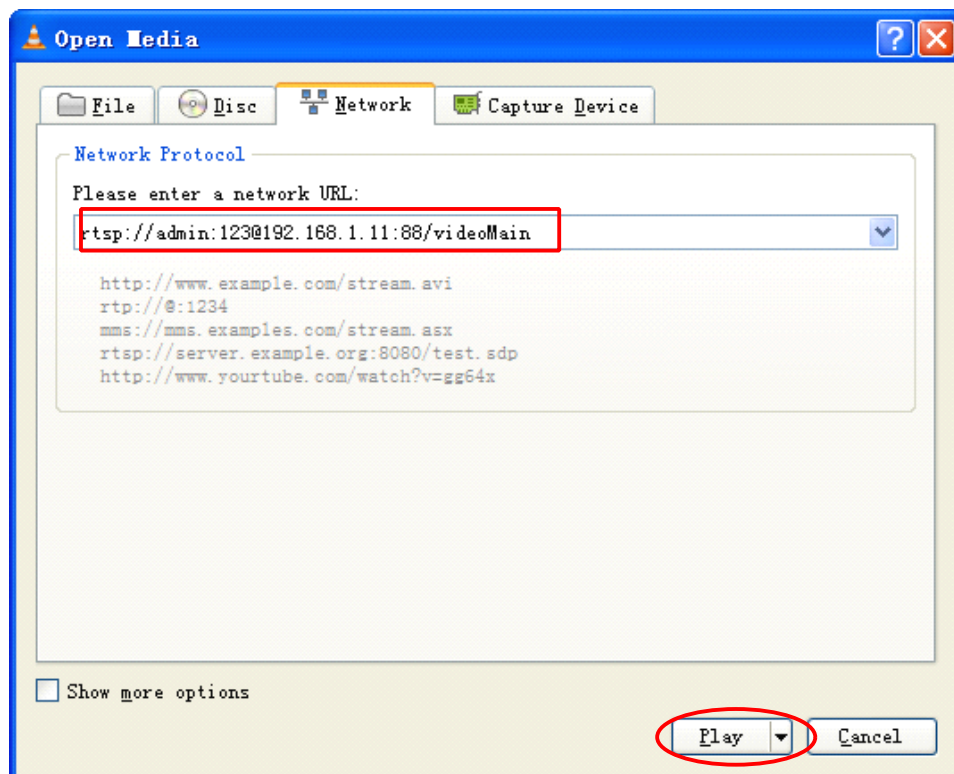
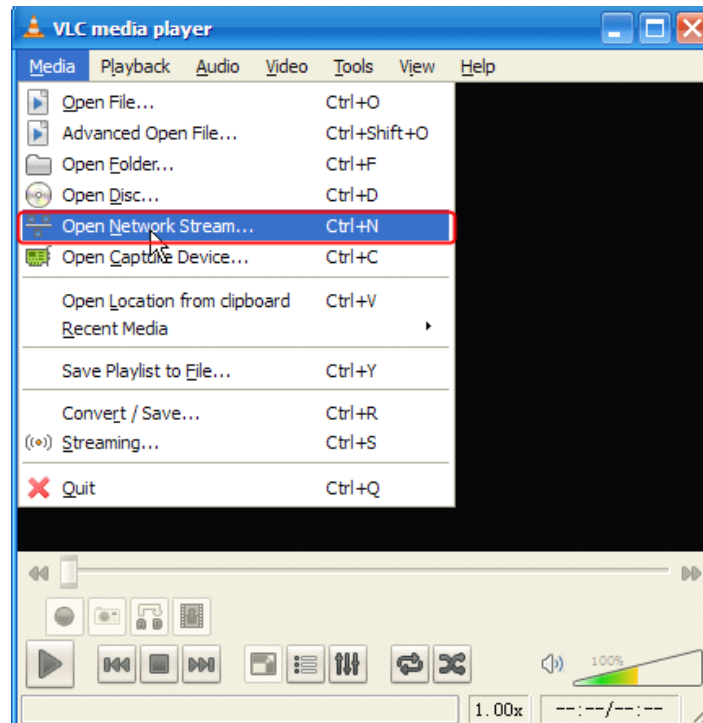
Password: 123

Here I can enter one of the following URLs in the VLC.

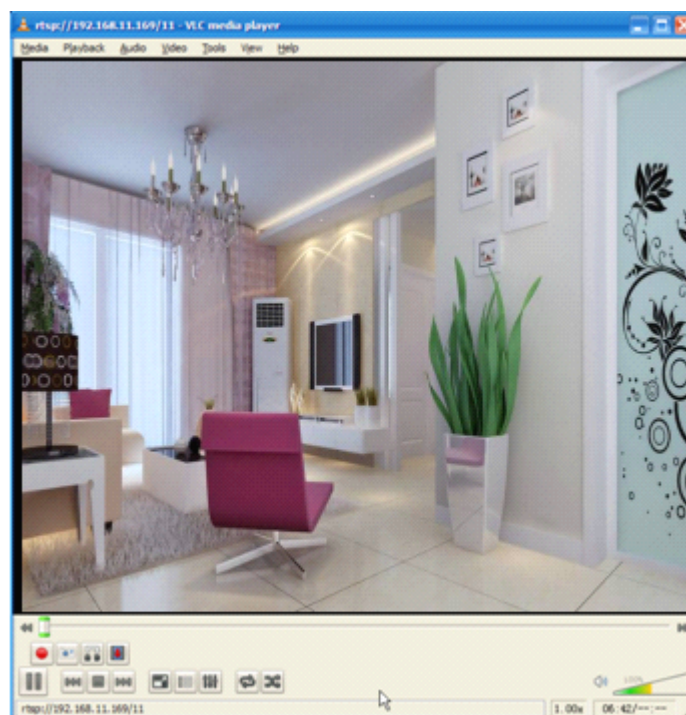
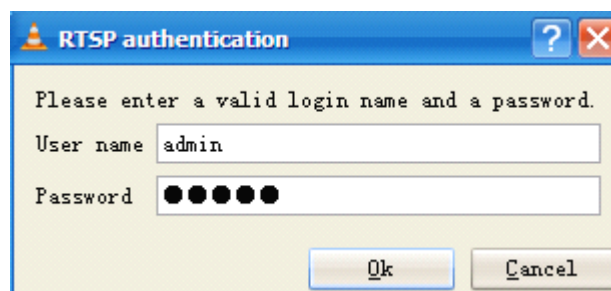
rtsp://admin:123@192.168.1.11:88/videoMain

rtsp:// @192.168.1.11:88/videoMain
 rtsp://:123@192.168.1.11:88/videoMain
 rtsp://admin@192.168.1.11:88/videoMain

Open the VLC, and go to Media(Open Network Stream option, then enter the URL into VLC.



Sometimes you may need to enter the user name and password again. Click OK and you can see the real-time preview.



If you cannot play the video in the VLC player, please check the port mapping. You can read Quick Installation Guide about How to configure port forwarding.

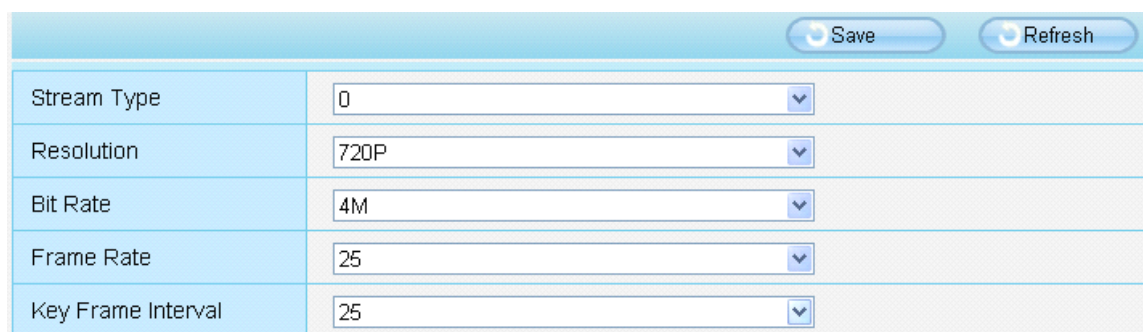
NOTE:

If you modify the camera's username or password, you had better reboot the camera, or else the new username and password cannot take effect when you enter the authentication in the VLC.

4.4 Video

This section allows you to configure Video stream settings, On screen display and Snapshot settings.

4.4.1 Settings



The screenshot shows a settings interface with a light blue header bar containing 'Save' and 'Refresh' buttons. Below the header is a table with five rows, each representing a video setting. The first column contains the setting name, and the second column contains a dropdown menu with its current value.

Setting	Value
Stream Type	0
Resolution	720P
Bit Rate	4M
Frame Rate	25
Key Frame Interval	25

Figure 4.37

Stream type: There are four types to identify different streams you have set.

Resolution: The camera supports two types: 720P, VGA. The higher the resolution is, the clearer video will become. But the code flux will become larger too, and it will take up more bandwidth.

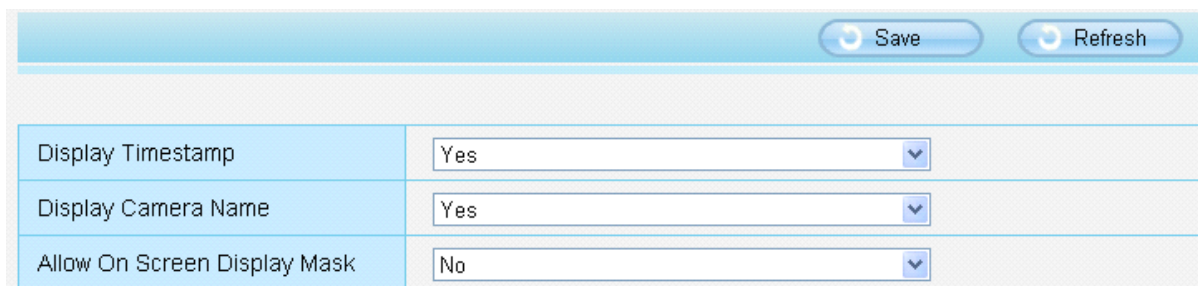
Bit rate: Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should combine well with the network bandwidth. When the bandwidth is very narrow, and bit rate is large, that will lead to video can not play well.

Frame rate: Note that a larger frame size takes up more bandwidth. When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.

Key Frame Interval: The time between last key frame and next key frame. The shorter the duration, the more likely you will get a better video quality, but at the cost of higher network bandwidth consumption.

4.4.2 On Screen Display

This page is used to add timestamp and device name on the video.



The screenshot shows a settings interface with a light blue header bar containing 'Save' and 'Refresh' buttons. Below the header is a table with three rows, each representing an on-screen display option. The first column contains the option name, and the second column contains a dropdown menu with its current value.

Option	Value
Display Timestamp	Yes
Display Camera Name	Yes
Allow On Screen Display Mask	No

Figure 4.38

Display Timestamp: There are two options: Yes or NO. Select Yes and you can see the system date on the video,

Display Camera Name: There are two options: Yes or NO. Select Yes and you can see the device name on the video,

Allow On Screen Display Mask: There are two options: Yes or NO. Select yes and draw a mask area on the video, the mask area will be black on the video.

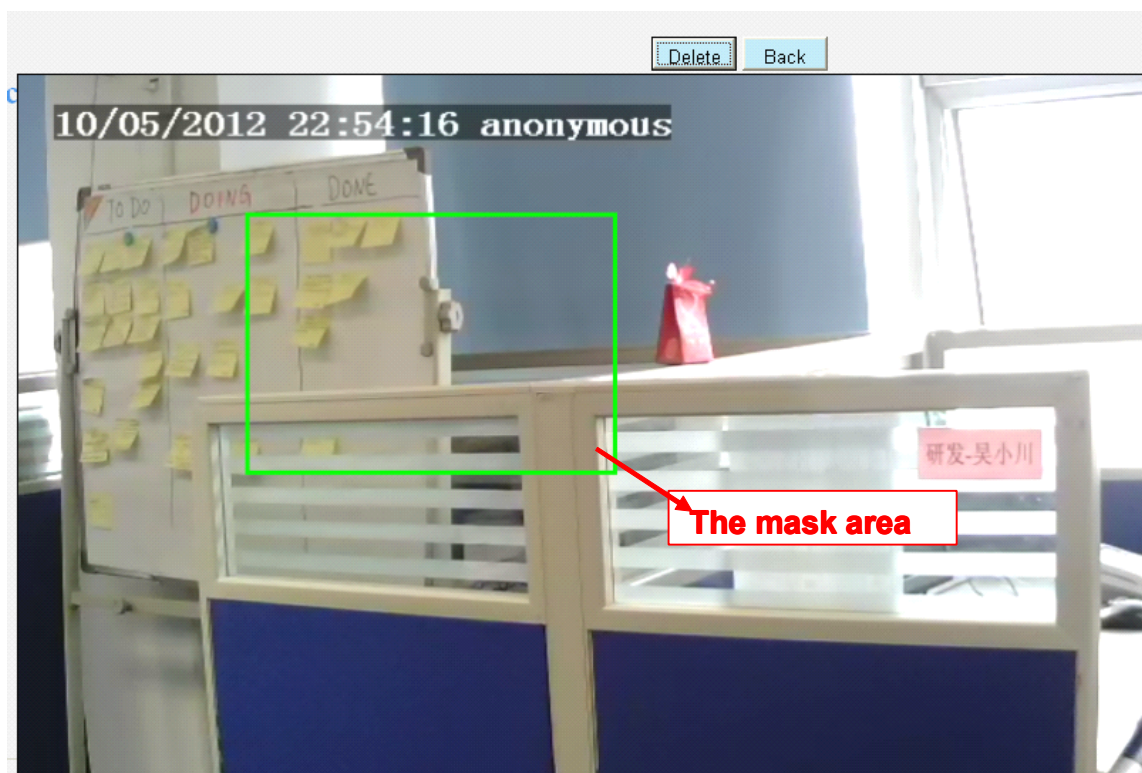


Figure 4.39

Click **Back** button and return to the OSD page, click Save to take effect.

Back to the surveillance window, you can see the mask area as the following picture:

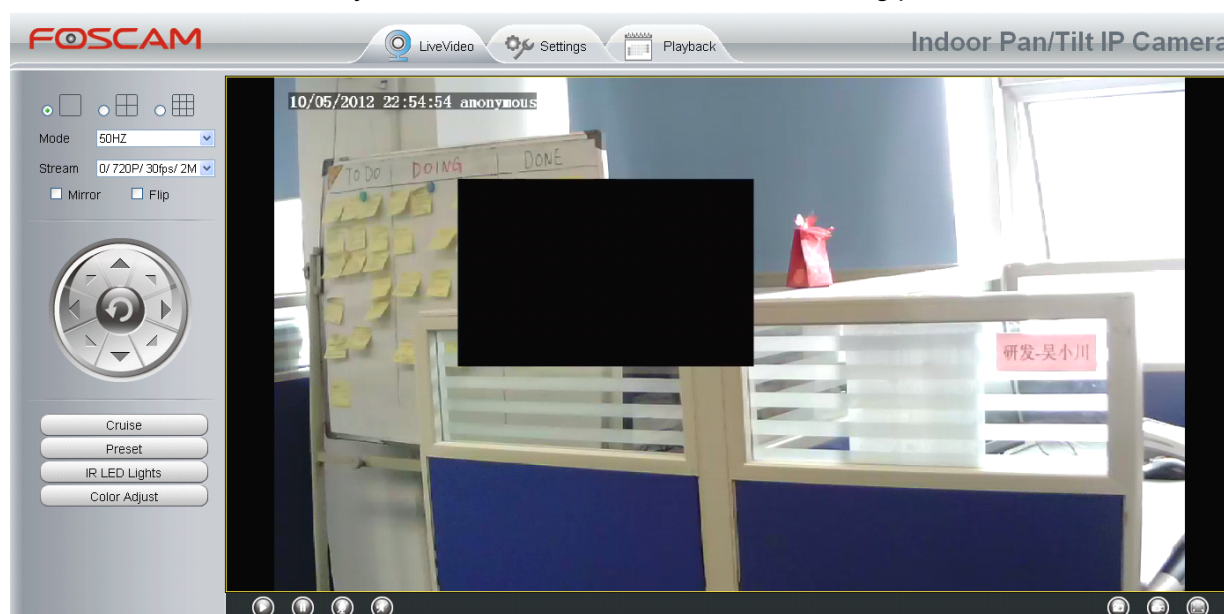
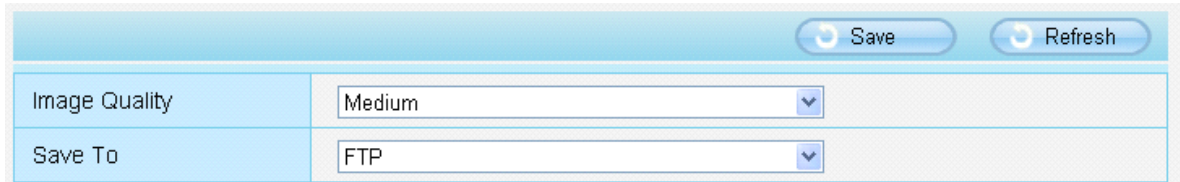


Figure 4.40

4.4.3 Snapshot Settings

On this page you can set the snapshot pictures' image quality and the storage path.



Save Refresh	
Image Quality	Medium
Save To	FTP

Figure 4.41

Image Quality: Low, Middle and High. The higher the quality, the picture will be clearer.

Save To: FTP or SD Card. If you have done FTP and Alarm settings, when alarming, the camera will snap pictures to the FTP automatically. If select SD Card as the save path, make sure the camera has inserted in the SD card.

4.5 Alarm

IP Camera supports **Motion Detection Alarm**, when the motion has been detected, it will send emails or upload images to FTP.

Save Refresh

Enable ☒ 1

Sensitivity Medium 2

Triggered Interval 10s 3

Action

Ring ☒ 4

Send E-mail ☒

Take Snapshot ☒ Time Interval 2s

Record ☒

Set Detection Area 5

Schedule 6

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
SUN																								

Figure 4.42

To enable motion detection, follow the steps below:

Step 01: Enable Motion detection

Step 02: Sensitivity---- It supports three modes: Low, Middle and High. The higher the sensitivity, the camera will be more easily alarmed. Select one motion sensitivity.

Step 03: Trigger interval--- The interval time between two motion detections. Here supports 5s/6s/7s/8s/9s/10s/11s/12s/13s/14s/15s. Select one interval time.

Step 04: Select the alarm indicator

When the motion has been detected, the alarm status will turn to Detect alarm.

Refresh	
Alarm Status	Detect alarm
Record Status	Recording
SD Card Status	SD card
SD Card Free Space	3.0G
SD Card Total Space	3.6G
NTP Status	Disable
DDNS Status	Success http://test09.myfoscam.org:88
UPnP Status	Success
WiFi Status	Connected to:foscam-wifi
IR LED Status	Off

There are four alarm indicators:

A Ring

There is an embedded speaker inside the camera, so if you select Ring, when the motion has been detected, the people around the camera will hear beep alarm sound.

B Send E-mail

If you want to receive alarm emails when motion is detected, you must select Send E-mail and set Mail Settings first. The alarm email cannot contain the alarm picture if you have not selected Take Snapshot.

C Take Snapshot

If you select this checkbox, when the motion has been detected, the camera will snap the live view window as a still picture and load it to the FTP. Make sure you have set FTP and set FTP as the storage path in Video->Snapshot settings panel.

If you select Send Email, at the same time the picture will be send to you as an attachment.

Capture interval: The interval time between two pictures.

D Record

If you select this checkbox, when the motion has been detected, the camera will record automatically and store the record files to the SD Card. Make sure the camera has inserted SD card and you have set the SD card as the Alarm record files storage path, please go to **Record—> Storage location** page to verify this settings.

The default alarm record time is 30s and pre-alarm record time is 5s, please go to **Record—> Alarm Record** page and change the alarm time settings.

Step 05: Set detect area

Click set detect area and it pop up a window, then you can draw the detection area. Click **Back** button after settings. When something moving in the detection area, the camera will alarm.



Figure 4.43

Step 06: Alarm Schedule

① Alarm anytime when motion is detected

Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at anytime, the camera will alarm.

Linkage	Ring <input type="checkbox"/>
	Send Mail <input type="checkbox"/>
	Snap picture <input checked="" type="checkbox"/> Capture interval 3s <input type="button" value="v"/>
	<input type="button" value="Set detect area"/>

Click this button and select all time range

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
SUN																								

Figure 4.44

② Specify an alarm schedule

Click the week day words, the corresponding column will be selected. For example, click TUE, the all column

of TUE turns to red, that means during Tuesday whole day, when something moving in the detection area, the camera will alarm.

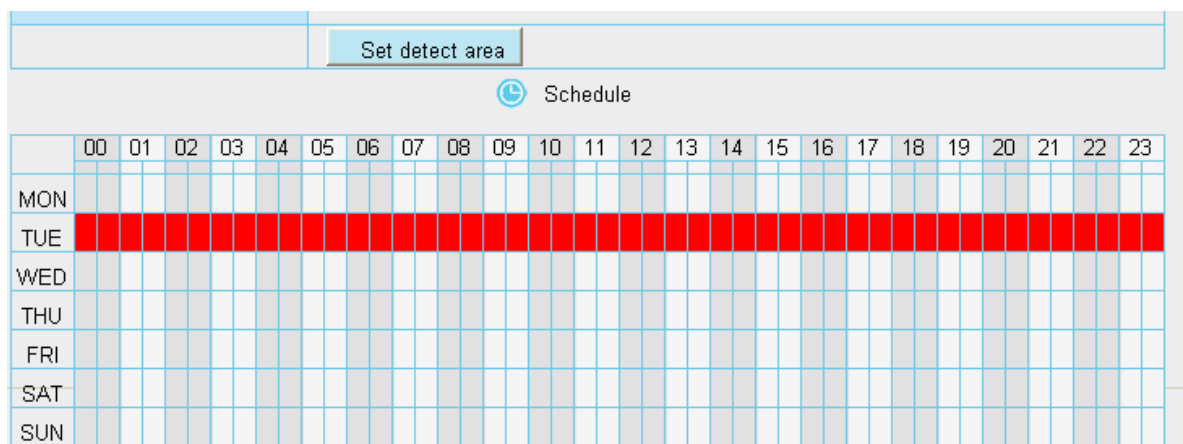


Figure 4.45

③ Press the left mouse and drag it on the time boxes, you can select the serial area,

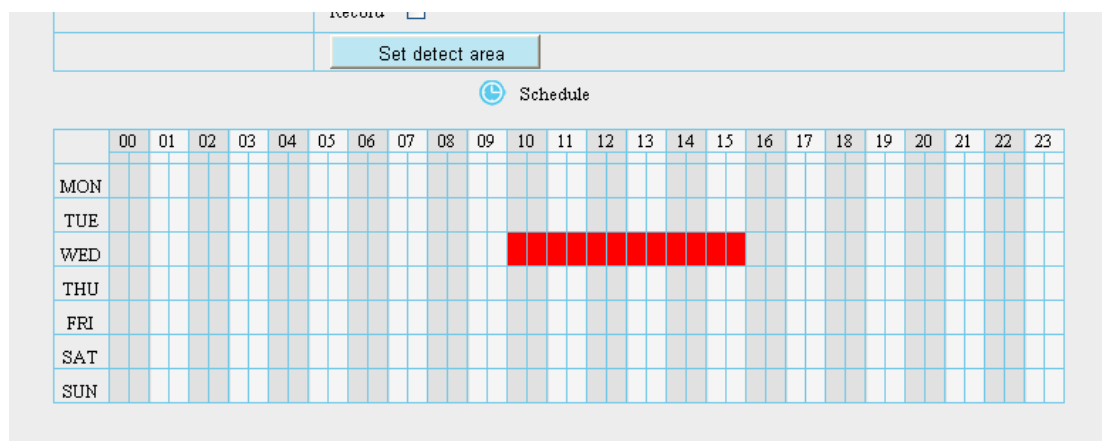


Figure 4.46

Step 07: Click Save button to take effect.

When the motion has been detected during the detection time in the detection area, the camera will alarm and adopt the corresponding alarm indicators.

NOTE: You must set the detection area and detection schedule, or else there is no alarm anywhere and anytime.

4.6 Record

This section will allow you to change the record files storage path and the record time.

4.6.1 Storage Location

On this page you can change the alarm and manually recording storage path.

Save Refresh

Alarm Recording Location	SD card 3.0 G / 3.6 G
Manual Recording Location	c:/IPCamRecord

1. Alarm Recording Location is used for alarm recordings.

2. The Manual Recording Location can only be set to your local hard drive. The default Windows storage location is "C:/IPCamRecord". The default Mac OS storage location is "/IPCamRecord".

Figure 4.47

Alarm Recording Location : SD card. When the camera alarmed, it will store the alarm files to the SD card. Make sure the camera has been inserted the SD card. On this page, you can see the available space of the SD card.

Manual Recording Location: For Windows OS, the manual recording path is C:/ IPCamRecord, you can change another one. For MAC OS, the manual recording path is: / IPCamRecord.

4.6.2 Alarm Record

This page you can change the Pre-record time and Alarm record time.

Save Refresh

Enable pre-record ☒

Pre-recorded time	5s
Alarm record time	30s

The default Pre-recorded time is 5s and the alarm record time is 30s, you can change another time, click Save button to take effect.

4.7 Pan/Tilt

This page will allow you to change the pan/tilt speed and do cruise tracks settings.

4.7.1 Pan/Tilt Speed

There are five Pt speed types: very fast, fast, normal, slow and very slowly. Select the desired PTZ speed type and click save button .

Save Refresh

PTZ speed	Normal
-----------	--------

Figure 4.48

4.7.2 Preset Settings

This section explains how to add/ delete/ alter one cruise track.

There are two default cruise tracks: Vertical and Horizontal.

Vertical: The camera will rotate from up to down

Horizontal: The camera will rotate from left to right.

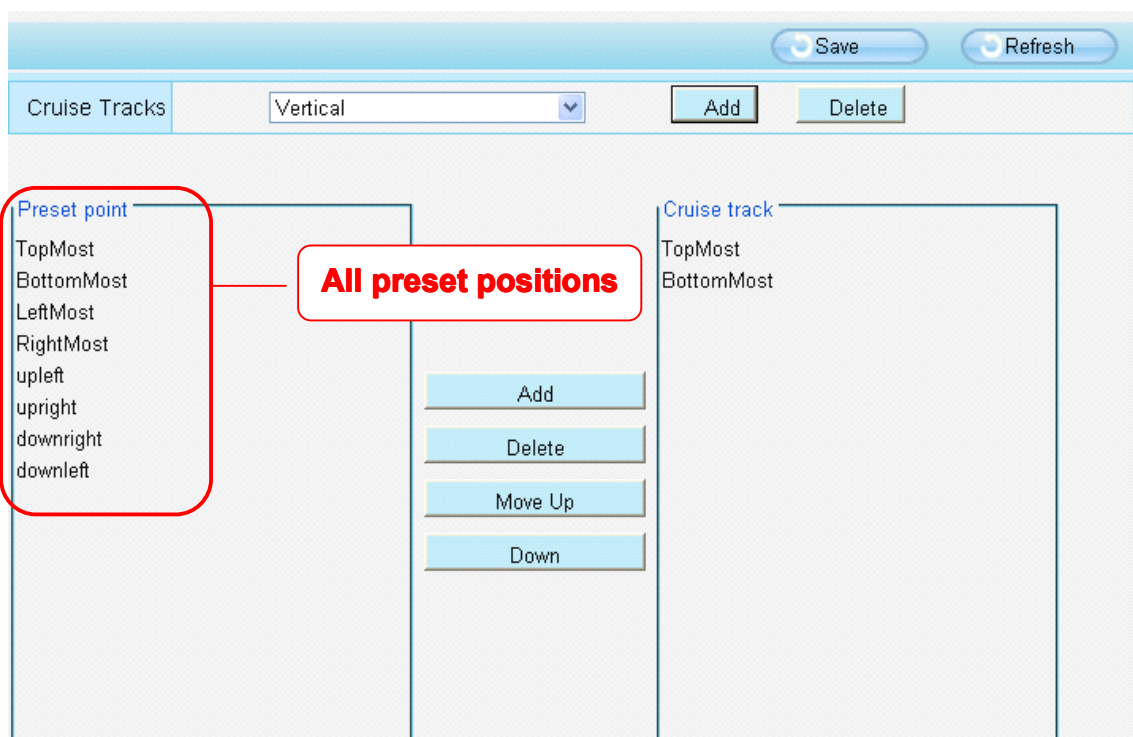


Figure 4.49

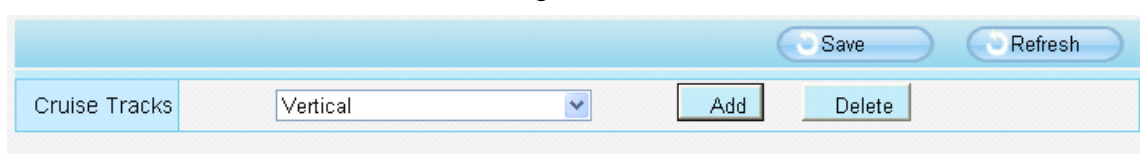


Figure 4.50

Add: Add one cruise track.

Delete: Select one cruise track and delete it.

How to do add cruise tracks ?

Firstly, Click Add button and enter a descriptive name to identify the cruise track

Secondly: On the lower left of the page, you can see all preset points you have added. Select one preset point and click Add button, you can see the preset point has been added to the cruise track on the cruise track page. You need to add two or more preset points to the cruise track.

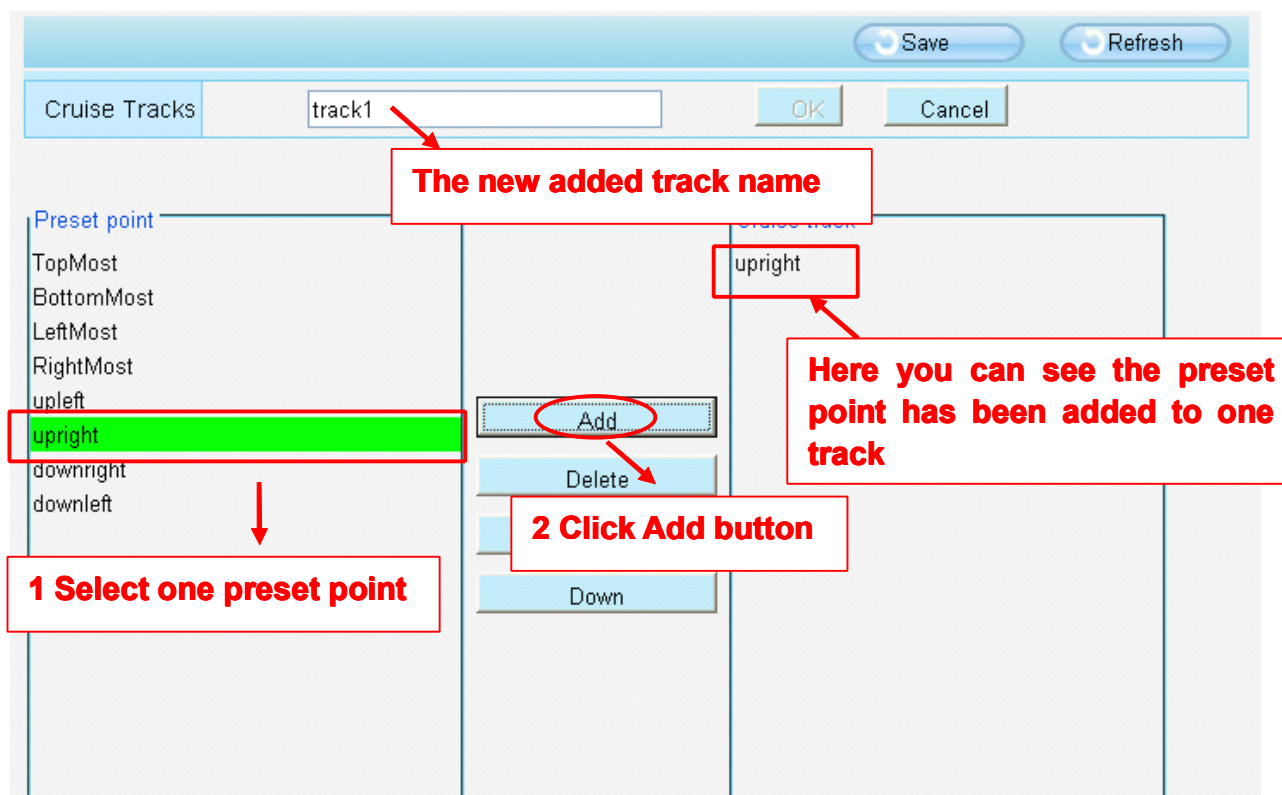


Figure 4.51

Thirdly: Click **OK** button and the cruise track will take effect.

You can add other cruise track as the same method.

For example: I have added three preset points to the "track 1", that means : When I select the "track 1" on the surveillance window, the camera moves as the following track: upright then Right Most last downleft.

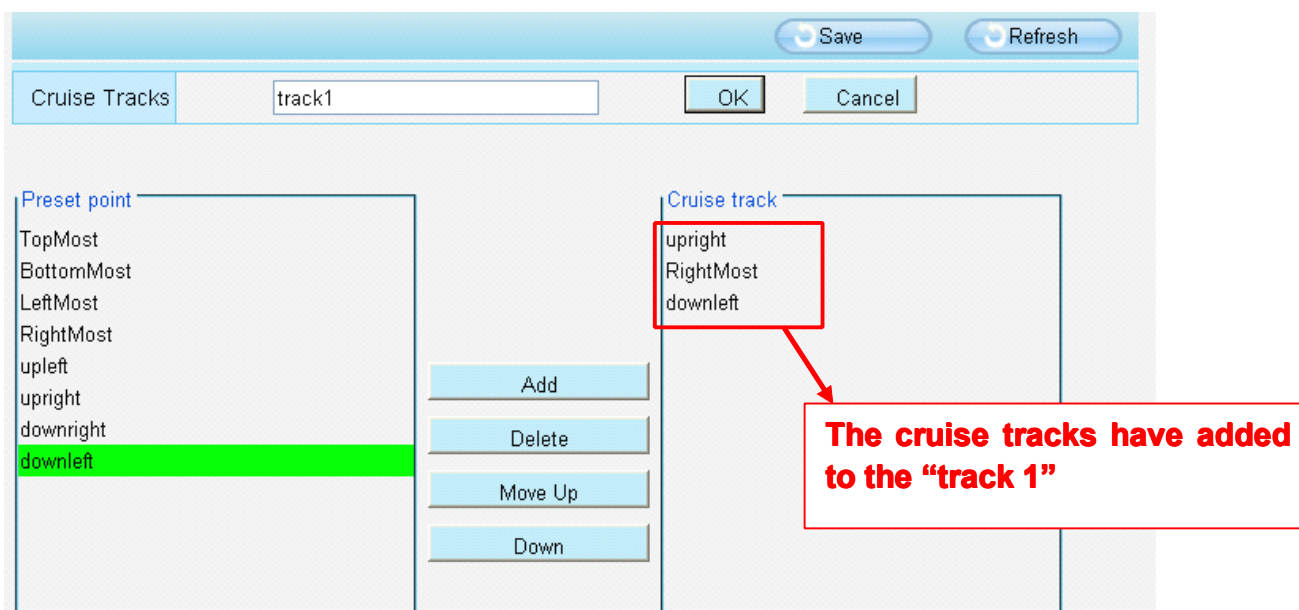
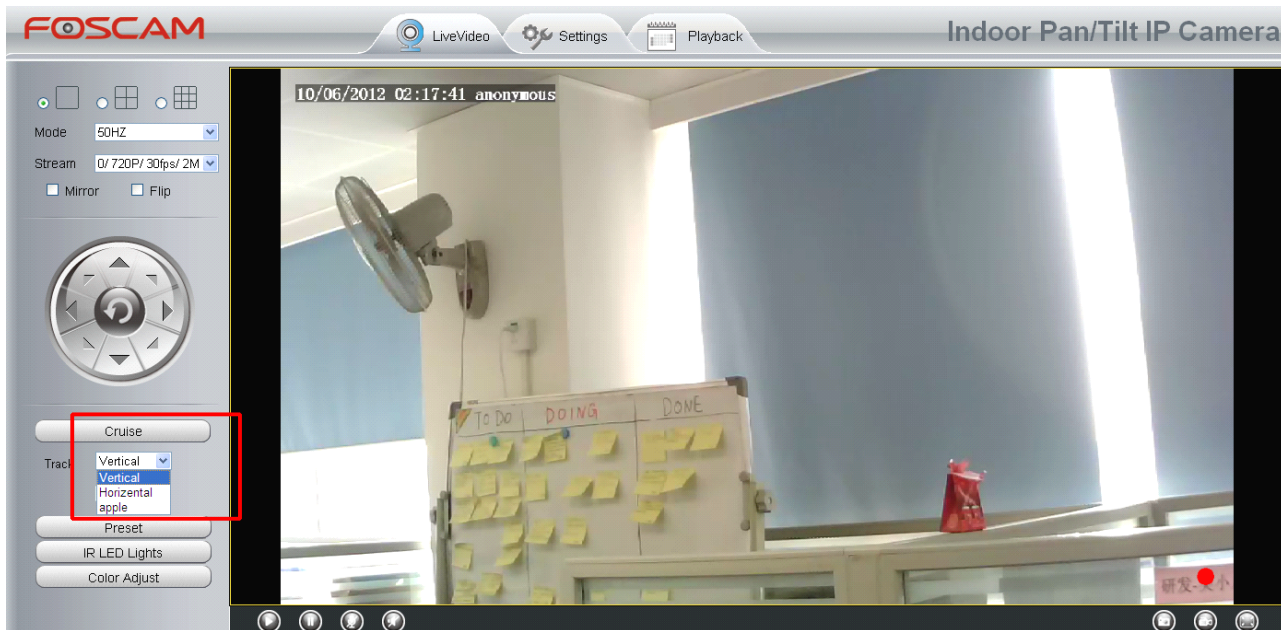


Figure 4.52

After add the cruise track, back to the surveillance window, click Cruise, her you can see all cruise tracks you have added.



There are other buttons between the Preset points and Cruise track, you can use these buttons to adjust the order of preset points or add/delete one preset points in one cruise track,

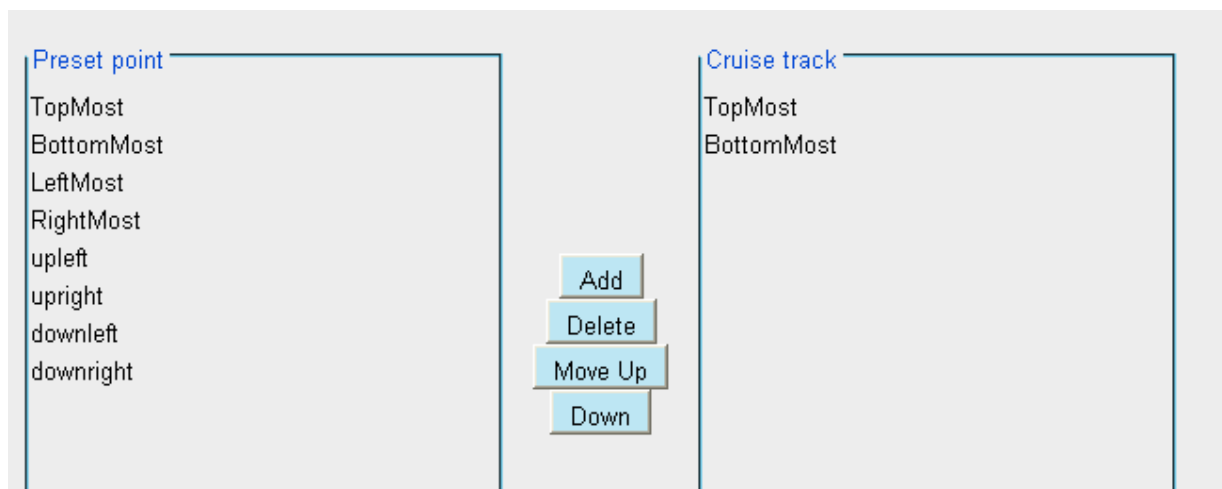


Figure 4.53

Add: Select one preset points and add it to the selected cruise track.

Delete: Select one preset points you have added to one cruise track, click delete.

Move up/ down: Select one cruise track, adjust the order of preset points in one cruise track.

4.7.3 Pan/ Tilt Start Mode

Here section will allow you to set the stop position after the camera reboots.

It supports three modes: No self test, Goto home position and Goto preset point.

No self test: When rebooting, the camera will not pan / tilt.

Goto home position: When rebooting, the camera will pa Providing Central Management Software to manage or monitor multi-cameras n / tilt and stops at center.

Goto Preset point: Select one preset position and save it. When rebooting, the camera will pan/ tilt and stops at the preset position you have set.

<div>Save Refresh</div>	
Pan & Tilt Start Mode	Goto home position

4.8 Path Settings

If you want to upload record files and images to your FTP server, you can set **FTP Settings**.

<div>Save Refresh</div>	
FTP server	ftp://192.168.8.150 example:ftp://192.168.1.103
Port	21
FTP Mode	PORT
User name	yaocuixiang
Password
Test	Success

Figure 4.54

<div>Save Refresh</div>	
FTP server	ftp://ftp.mgenseal.com example:ftp://192.168.1.103
Port	21
FTP Mode	PORT
User name	deotestge
Password
Test	Success

Figure 4.55

FTP server: If your FTP server is located on the LAN, you can set as Figure 3.54.

If you have an FTP server which you can access on the internet, you can set as Figure 3.55.

Port: Default is port 21. If changed, external FTP client program must change the server connection port accordingly.

FTP Mode: Here supports two modes: PORT and PASV.

Username/password: The FTP account and password.

Click **Save** to take effect.

Click **Test** to see if FTP has been successfully configured.

4.9 Firewall

This section explains how to control the access permission by checking the client PC's IP addresses. It is composed of the following columns: **Block access from these IP addresses** and **Only allow access from these IP addresses**..

IP Filtering	
	<div>Block access from these IP addresses</div> <div>Block access from these IP addresses</div> <div>Only allow access from these IP addresses</div>
IP Address #1	<input type="text"/>
IP Address #2	<input type="text"/>
IP Address #3	<input type="text"/>
IP Address #4	<input type="text"/>
IP Address #5	<input type="text"/>
IP Address #6	<input type="text"/>
IP Address #7	<input type="text"/>
IP Address #8	<input type="text"/>

Figure 4.56

Enable firewall, If you select Only allow access from these IP addresses and fill in 8 IP addresses at most, only those clients whose IP addresses listed in the **Only allow access from these IP addresses** can access the Network Camera. If you select **Block access from these IP addresses**, only those clients whose IP addresses are in the IP list cannot access the Network Camera.

Click **Save** to take effect.

4.10 System

In this panel, you can backup/restore your camera settings, upgrade the firmware to the latest version, restore the camera to default settings and reboot the device.

4.10.1 Back up& Restore settings

Click **Backup** to save all the parameters you have set. These parameters will be stored in a bin file for future use.

Click Browse and select the parameters file you have stored, then click Submit to restore the restore the parameters.

Backup is used to save your current settings. It is recommended to backup your configuration before modifying or upgrading firmware.

Settings can be restored by uploading the backup file.

Path:

Note:

1. All current settings will be lost when importing a configuration file. If an incorrect file is loaded, the camera may stop working correctly.
2. Keep the power on during this process, or you may damage your camera. Your camera will reboot automatically once restoration is completed.

Figure 4.57

4.10.2 System upgrade

Your current firmware version will be displayed on your screen. You may go to the **Device Status** → **Device Information** Page to check for the latest firmware versions available.

Click **Browse**, choose the correct bin file and then click **System upgrade**. Make sure you have unplugged the SD card.

Don't shut down the power during upgrade. After upgrading, you can see the upgrade result.

Upgrade Result

Figure 4.58

Upgrade Firmware by IP Camera Tool



Double click the IP Camera Tool shot icon , select the Camera IP that you want to upgrade the firmware. Then select Upgrade Firmware and enter the username and password, choose the firmware file, and upgrade.

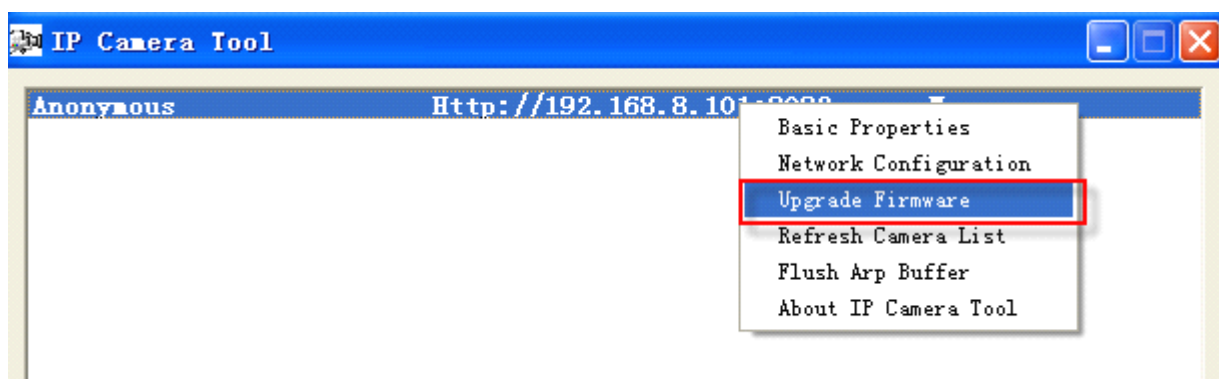


Figure 4.59

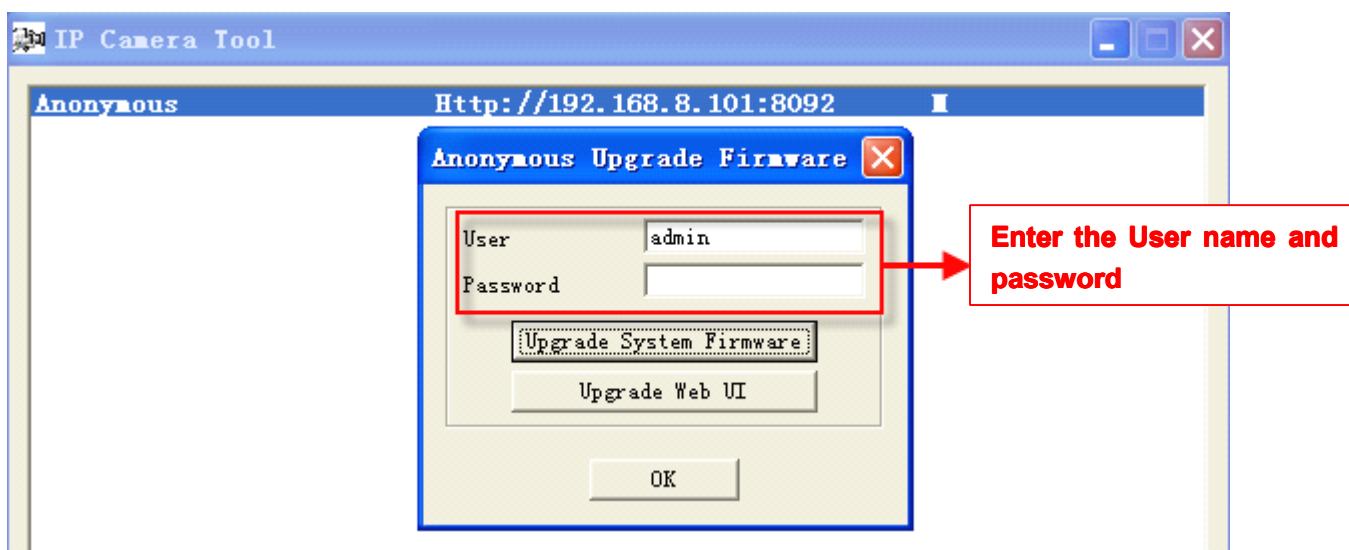


Figure 4.60

CAUTION: If your camera works well with the current firmware, we recommend not upgrading. Please don't upgrade the firmware unnecessarily. Your camera may be damaged if misconfigured during an upgrade.

NOTE:

- 1) Before upgrade the firmware, please unplug the SD card and reboot the camera, don't upgrade the firmware in WAN through the web UI, or else the upgrade process may be failed.
- 2) Please ensure you have download the correct firmware package for your camera before upgrading. Read the upgrade documentation (readme.txt file) in the upgrade package before

you upgrade.

- 3) Upon downloading the firmware check the sizes of the .bin files. They must match the size in the readme.txt file. If not, please download the firmware again until the sizes are the same. Your camera will not function correctly if a corrupt .bin file is used.
- 4) Normally, only Device WEB UI need to be upgrade, please do not try to upgrade the Device System Firmware.
- 5) Never shut down the power of the camera during upgrade until the IP camera restart and get connected.
- 6) After upgrade successfully, please uninstall the old plugin and re-install it, then reset the camera to the default factory settings before using the camera.

4.10.3 Factory reset

Click All reset and all parameters will return to factory settings if selected. This is similar to press the Reset button on the bottom of the camera..

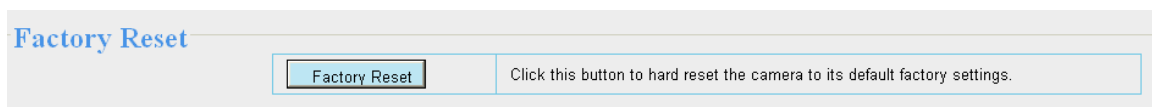


Figure 4.61

4.10.4 Reboot System

Click Reboot System to reboot the camera. This is similar to unplugging the power to the camera.

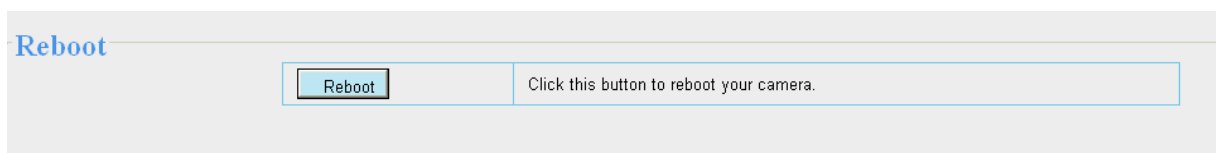
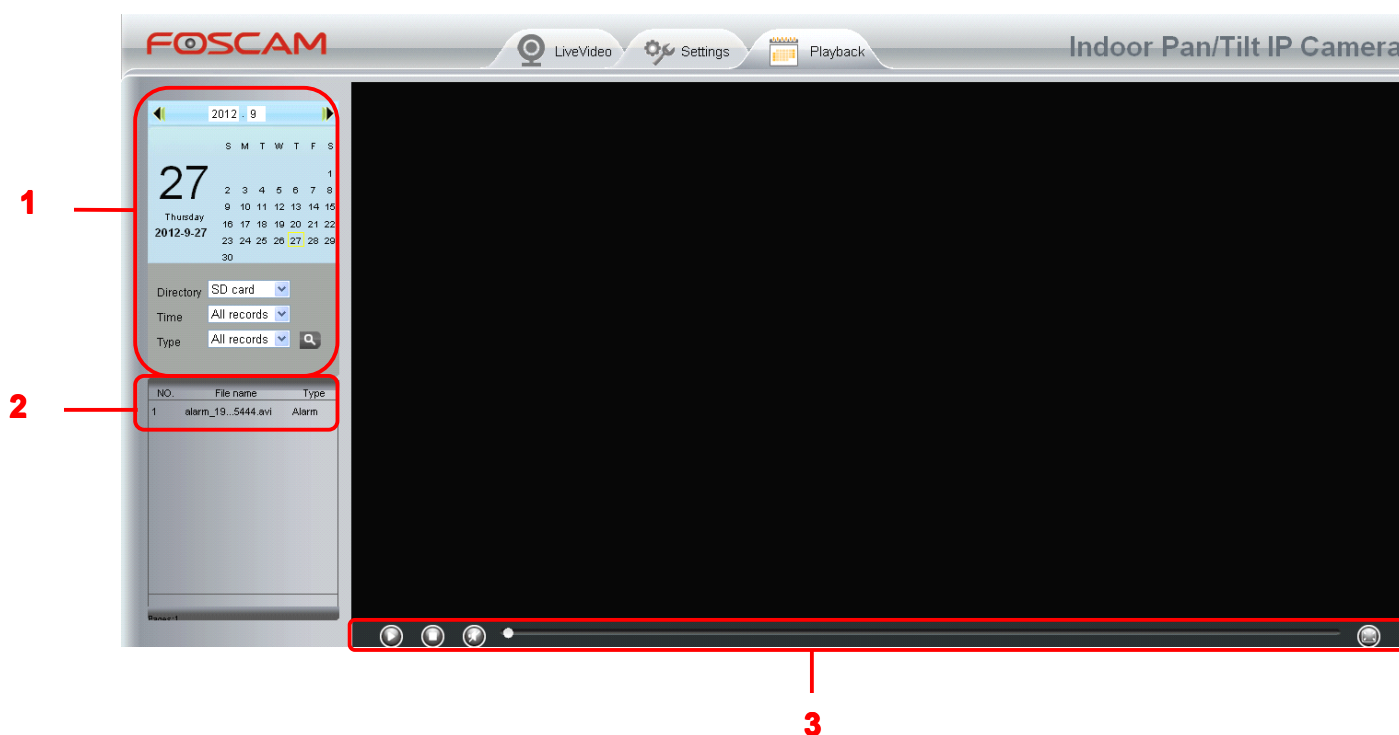


Figure 4.62

5 Playback

On this page you can view the record files stored in the SD card.



Section 1 Define the Record files time and Type

Directory : The storage path of record files

Time : Here supports three types: current day, current month and All records. Another way, select the time on the time&date manually.



Type : The type of records files, Here supports two types: Normal record, Alarm record and All records.



: Click this button to search all record files satisfy the conditions you selected.

Section 2 Search record files

On this panel you can see all record files satisfy the conditions you set.

Section 3 Play/Stop/Audio/Full screen buttons

Please select one record file before use these buttons.



Click this button to play the record files



Click this button to stop the record files



Open or stop audio



Click this button to make full screen, and double click left mouse to exit full screen.

6 Phone APPs

With Phone APPs , you can view your camera directly as a computer anywhere, anytime. This section shows the user how to set up the iPhone, and Android mobile phones to view Foscam cameras with Phone APPs.

6.1 APP for Android cell phones

There are two ways to install the phone App :

- 1) Search the APP "Foscam ip cam viewer" in the Google Play directly if your cell phone has installed Google Play.

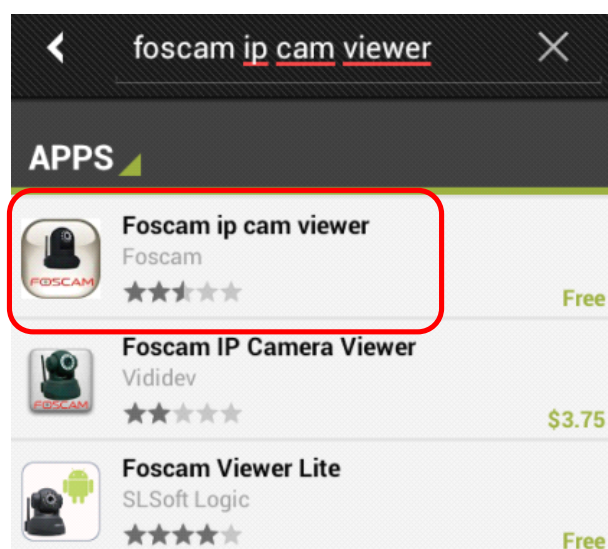
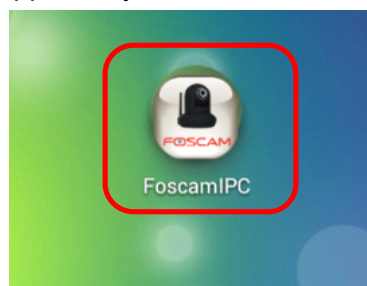
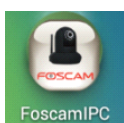


Figure 6.1

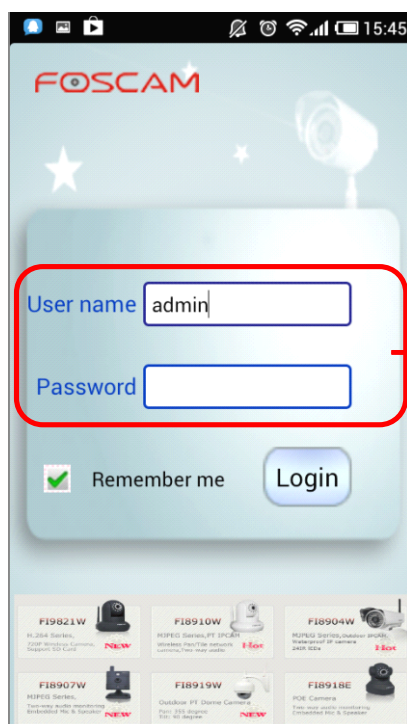
Download and install the phone view app, then you can see the shortcut icon in your cell phone screen.



2) Enter <http://play.google.com> in the URL field of the browser, then search the APP "Foscam ip cam viewer". Download and install the APP.



Click the shortcut icon and login Phone APP.



Default user name is admin with a blank password

Figure 6.2

Enter the user name and password then click Login button, you can see the following surveillance windows:

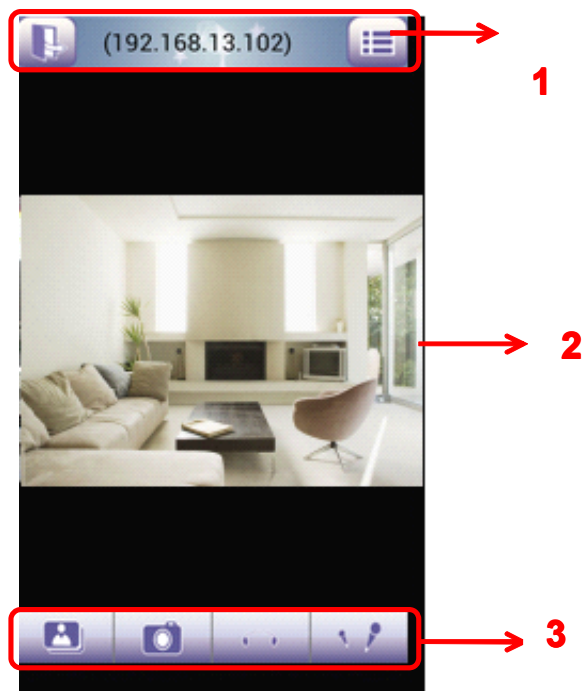


Figure 6.3

The default surveillance window is black, you need to add devices to it and then connect the device.

Please check the login window above, it was divided to 3 sections from no. 1 to 3.

Section1 Exit / Go to Device List Buttons



Click this icon and exit Phone App



Click this icon and back to Device List page to add cameras to the software

Section2 Live view window

If the camera supports PT function, here slide on the screen with your finger, the camera will rotate follow your finger direction.

Section3 Playback/ Snapshot/Audio/Talk buttons



Playback Click this icon to play the pictures you have captured.



Snapshot Click it to make snapshot.



Audio button Click it and you will hear sound captured by the camera's built-in microphone.

Make sure the camera supports Audio. Click the icon again and stop Audio.



Talk button Click it then talk through your cell phone's microphone which will transmit through the camera's speaker. People will hear your talking through the camera's built-in speaker. Make sure the camera supports Talk.

Click the icon again and stop talking.

How to add cameras to the Phone APP

The following steps are required before adding cameras to the APP:

- 1) Install the IP Camera(s) which wants to be monitored.
- 2) Login the IP Camera(s) by web browser and set the IP address, port, username & password and make sure the camera can be accessed by browsers.
- 3) DDNS setting is a plus whenever you want to add the devices by WAN.


Click the button  and go to Device List page, this section will show you how to add cameras in LAN or in WAN.



Figure 6.4

Section1 Back button



: Click this icon and back to the surveillance window

Section2 Device List

Here will list all cameras that added to the software.

Section3 Add device buttons

Add device in LAN



: Click this icon and the APP will search all cameras in LAN automatically. Such as the following screen:

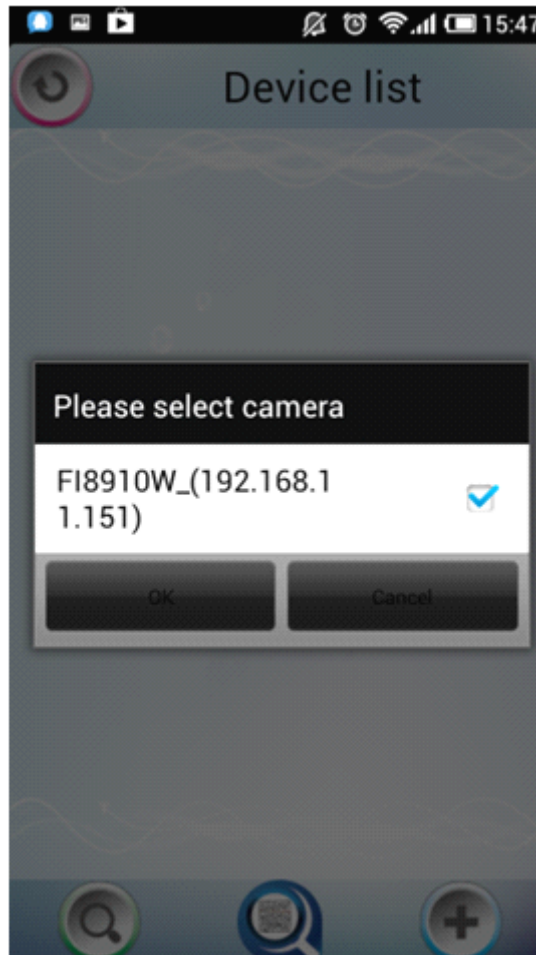


Figure 6.5

Select the camera IP and click OK to add cameras in LAN, then you can see the camera in the Device List.

Add device through scanning UID (User Identification) number



UID Scan. Click this icon and scan the UID no. in the camera body, then the camera can be added to the App.

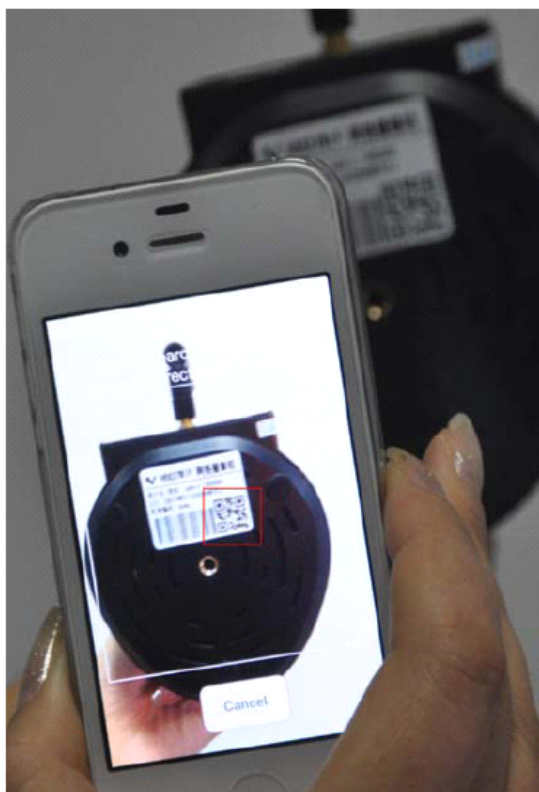


Figure 6.6

Normally each camera has one unique UID and UID is used for PnP function. Now our camera does not support UID number, so here you cannot allow to use UID to add device.

Add device in WAN



: Click this icon and you can add cameras in WAN manually.

Click this icon and it pops up the following screen, here you can add cameras manually.

Camera type MJ

Camera name alice

IP address camera.myfoscam.org

Stream type Sub stream

Http port 8090

Media port 888

User name admin

password hgf655

UID

Figure 6.7

Camera Type: Our Company produces two series cameras: MJ and H.264. Here select the camera type that you want to add.

Camera name: The Camera name is a unique name that you can give to your device to help you identify it.


IP address: Fill in the camera's DDNS host or WAN IP not LAN IP.

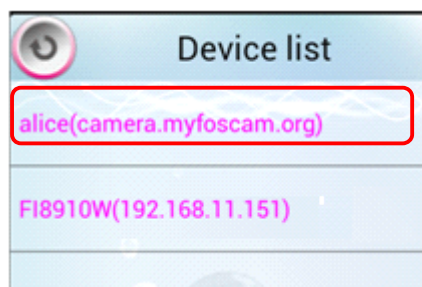
Stream type: It has two types: Main stream and Sub stream. For cell phones, we recommend you to select Sub stream to get more fluent video.

Http / Media port: For MJ cameras, here share the same port.

User name & Password: The camera's user name and password.

UID: If your camera supports UID, here you may fill in the UID no.. Now FOSCAM camera does not support UID.

Click the icon  to add camera then you can see the camera in the Device List.



Select one IP address and click it, then you can enter the surveillance window.

Select one IP address in the Device List and press it for a moment, it pop up the following screen:

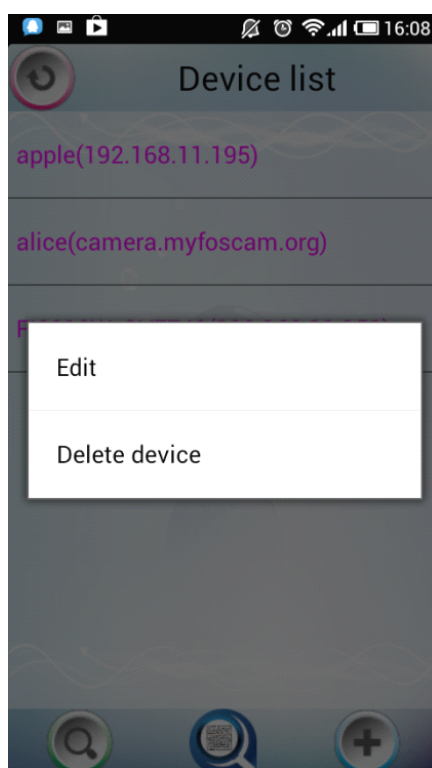


Figure 6.8

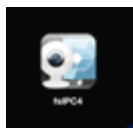
Edit: Re- edit the camera's information, such as the Http / Media port, user name and password, and so on. Click Edit and you can go to Add camera page (Figure 6.7).

Delete device: Delete the camera from the Device List.

6.2 APP for iPhones

If you use iPhone, please search the APP “Foscam ip cam viewer” and install it through APP Store, then you

can see the shortcut icon in your cell phone screen.



Click the icon and you can go to "ipcam table" page directly:



Figure 6.9

The default device list is null, you need to add cameras to it.

Section1 Camera list

Here will list all cameras that added to the software.

Section2 ipcam table/ add ipcam buttons



Click this icon and back to ipcam table page, here you can see all cameras that have added to the software.



: Click this icon and back to add ipcam page, here you can add cameras in LAN or in WAN to the software.

How to add cameras to the APP?

The following steps are required before adding cameras to the App:

- 1) Install the IP Camera(s) which wants to be monitored.
- 2) Login the IP Camera(s) by web browser and set the IP address, port, username & password and make sure the camera can be accessed by browsers.
- 3) DDNS setting is a plus whenever you want to add the devices by WAN.

If you want to add cameras to the App, please click this icon  go to **"add ipcam"** page(Figure 5.10).

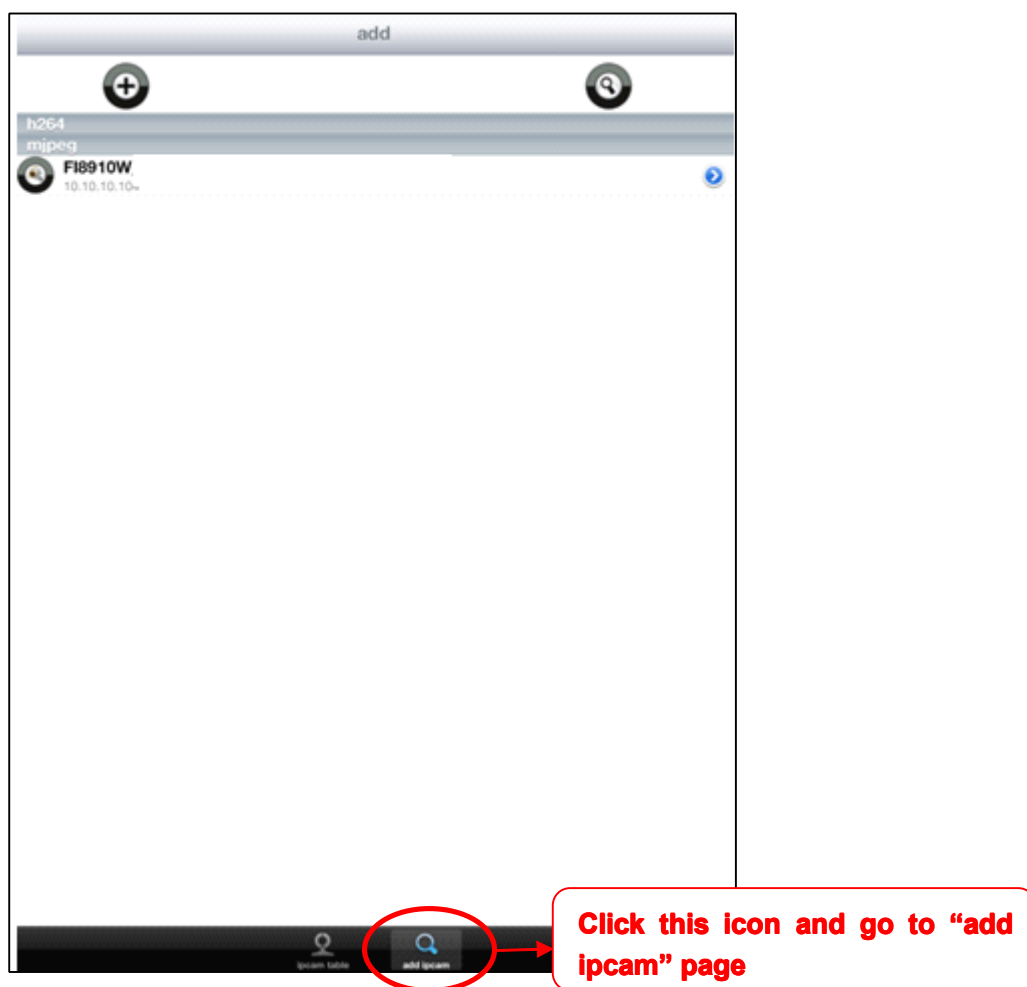

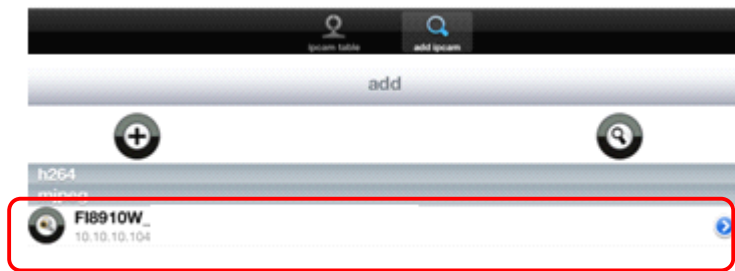


Figure 6.10


Add device in LAN

Click this button  and the APP will search all cameras in LAN, then add it to APP automatically .



The cameras in LAN can be searched and added to APP automatically

Figure 6.11

There is a  after the camera name, click it and you can enter the user name, password and web port to login the camera.

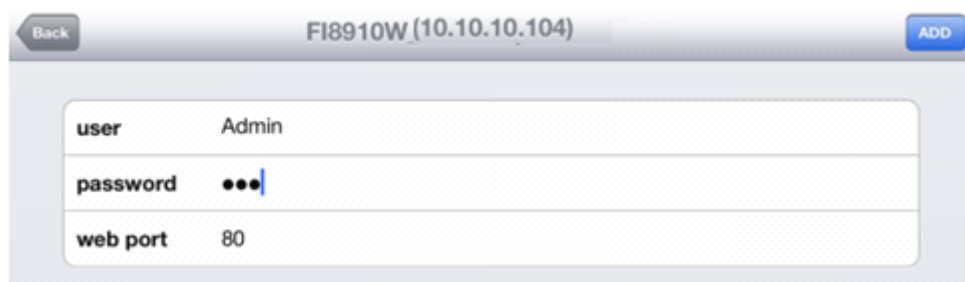


Figure 6.12

Add device in WAN

Step 1: Click the Add Camera icon  to add cameras manually.

Step 2: Select the camera type: mjpeg or h.284 (Figure 5.13), then enter the camera's basic information like camera name , ip , http/media port, user name, password and so on(Figure 4.14).

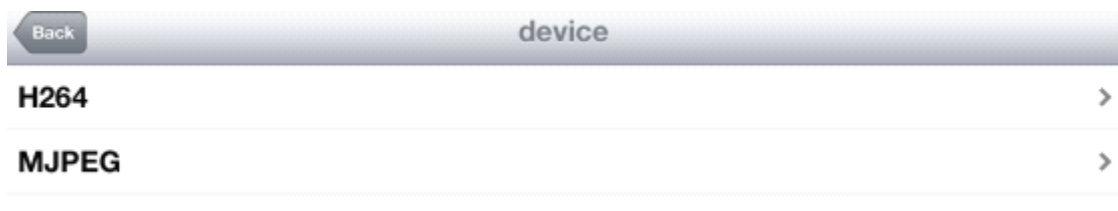


Figure 6.13

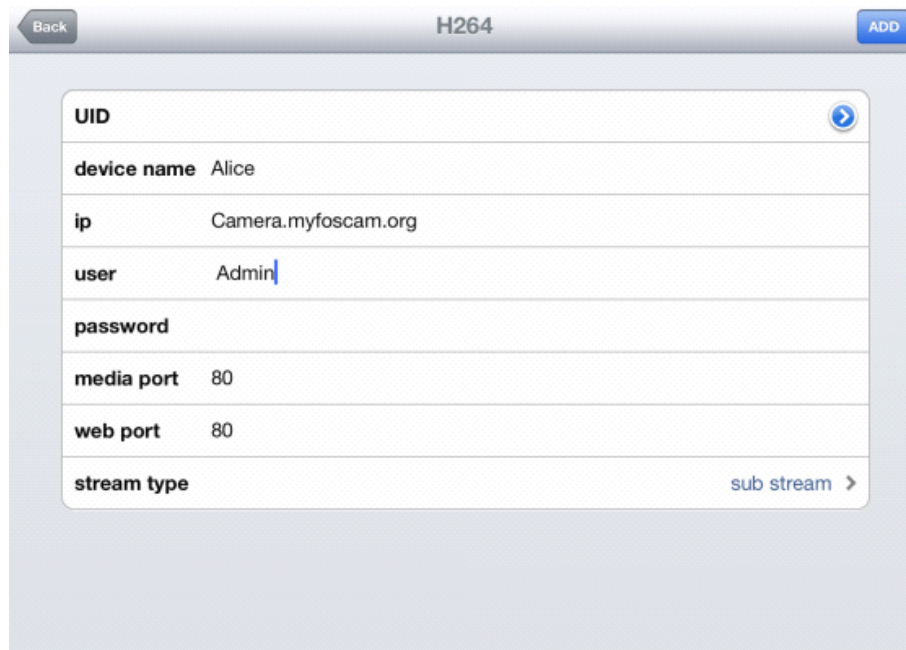


Figure 6.14a Add H.264 Device Page



Figure 6.14b Add MJPEG Device Page

UID: If your camera supports UID, here you scan UID number. Now FOSCAM camera does not support UID.


Device name: The Device name is a unique name that you can give to your device to help you identify it.

IP address: Fill in the camera's DDNS host or WAN IP not LAN IP.

User & Password: The camera's user name and password.

Media / Web port: For MJPEG cameras, here only support web port.

Stream type: It has two types: Main stream and Sub stream. For cell phones, we recommend you to select Sub stream to get more fluent video.

Step 3: Click Add button  to add cameras, then you can see the camera name in the “ip cam table” page.

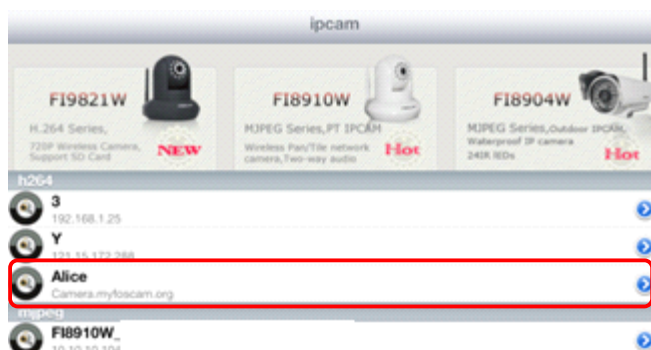



Figure 6.15

Surveillance windows

Back to “ipcam table” page and you can see all cameras that have added. There is a icon  after one camera name, click this icon and you can alter the camera’s user name, password, media port and http port.

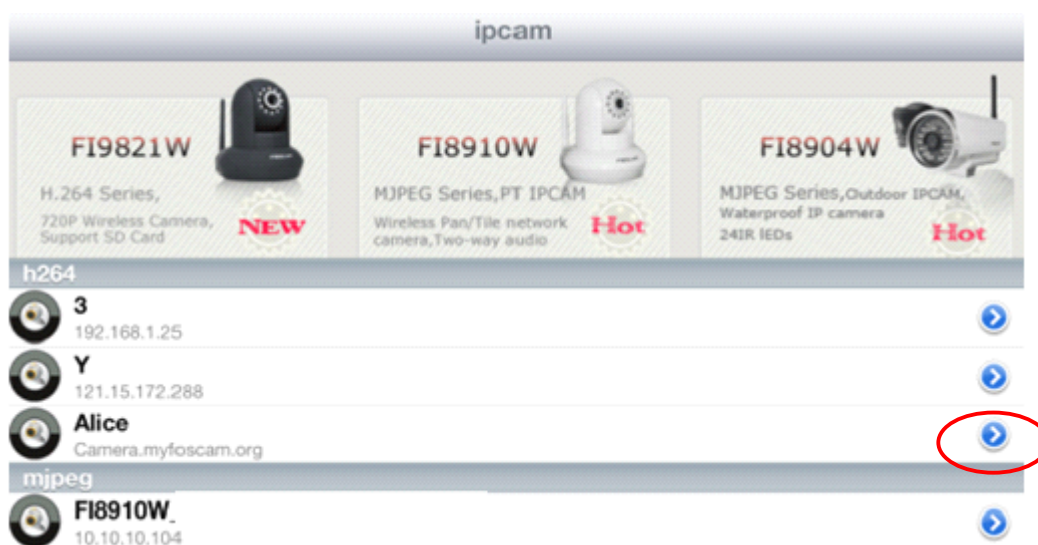


Figure 6.16

Back
Alice(Camera.myfoscam.org)
update

UID	
user	Admin
password	
media port	88
web port	888
stream type	sub stream >

Figure 6.17

Click one camera ip and you can see the live video.



Figure 6.18

Please check the login window above, it was divided to 4 sections from no. 1 to 4.

Section1 Back Button



: Click this icon and back to “ipcam table” page.

Section2 Photo Button

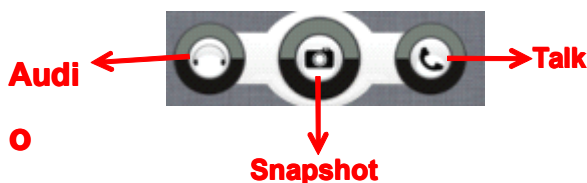


Click this icon and look the photos you have captured.

Section3 Live view window

If the camera supports PT function, here slide on the screen with your finger, the camera will rotate follow your finger direction.

Section4 Snapshot/Audio/Talk buttons



Snapshot

Click it to make snapshot.



Audio button

Click it and you will hear sound captured by the camera's built-in microphone. Make sure the camera supports Audio. Click the icon again and stop Audio.



Talk button

Click it then talk through your cell phone's microphone which will transmit through the camera's speaker. People will hear your talking through the camera's built-in speaker. Make sure the camera supports Talk.

Click the icon again and stop talking.

7 APPENDIX

7.1 Frequently Asked Questions

NOTE: Any questions you would meet, please check Network connections firstly. Check the working status revealed by the indicators on the network server, hub, exchange and network card. If abnormal, check the network connections.

7.1.1 How to download and install the ActiveX for Firefox users

For the first time login the camera, it may prompt you to download plugin.



Figure 7.1

Drag the download file to Firefox web page and it will prompt you to Install it.

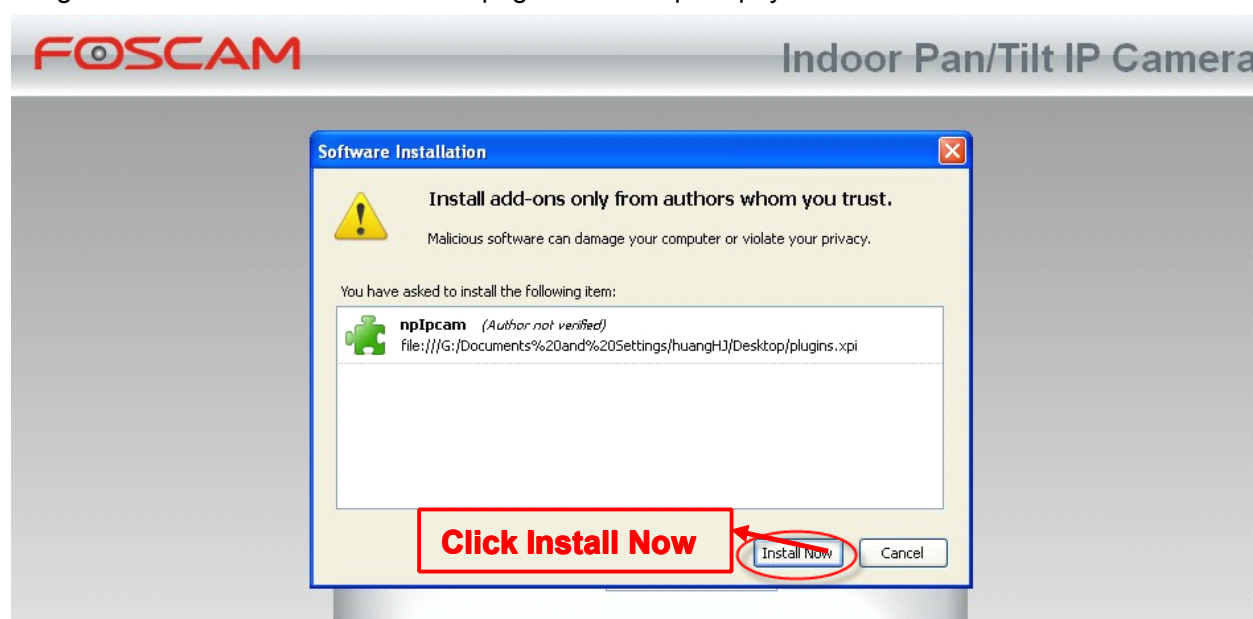



Figure 6.2

Reboot the Firefox after the plugin installation is successfully completely, then relogin the camera again, you can see the surveillance window

NOTE: If you could not view living video after running the ActiveX, only a red cross  in the center of the video or just a black screen. Please change another port number to try.

Make sure all firewall or antivirus software on your computer does not block the active download and installation. If you are unable to run the ActiveX control, try shutting down the firewall or antivirus program.

7.1.2 How to download and install the ActiveX for Google Chrome users

For the first time login the camera, it will prompt you to download the ActiveX..

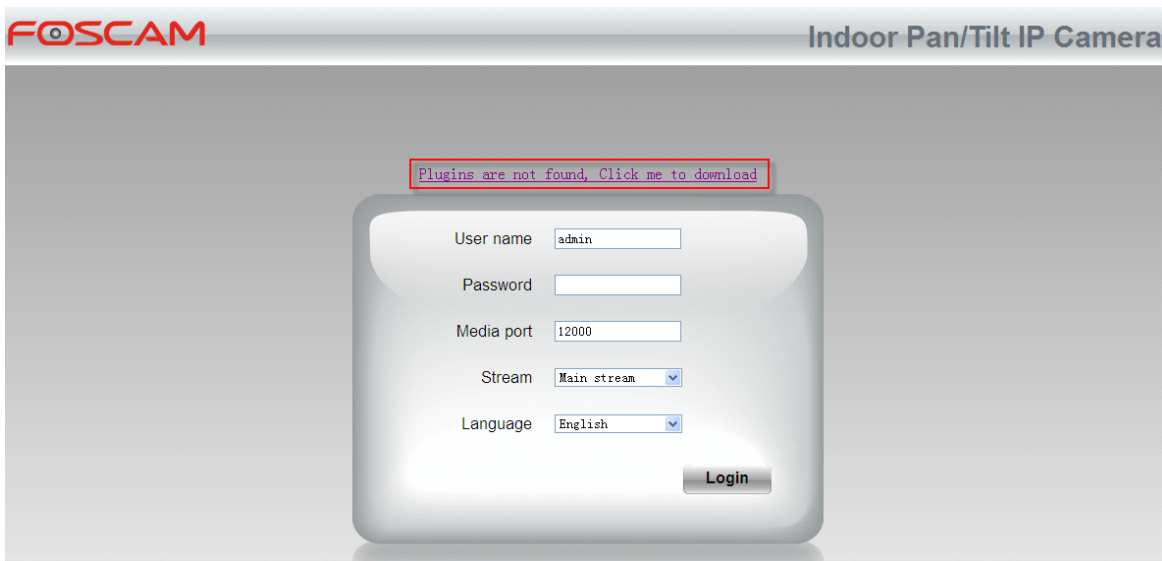


Figure 7.3

Download the plugin and drag it to the Extensions page of Google Chrome.

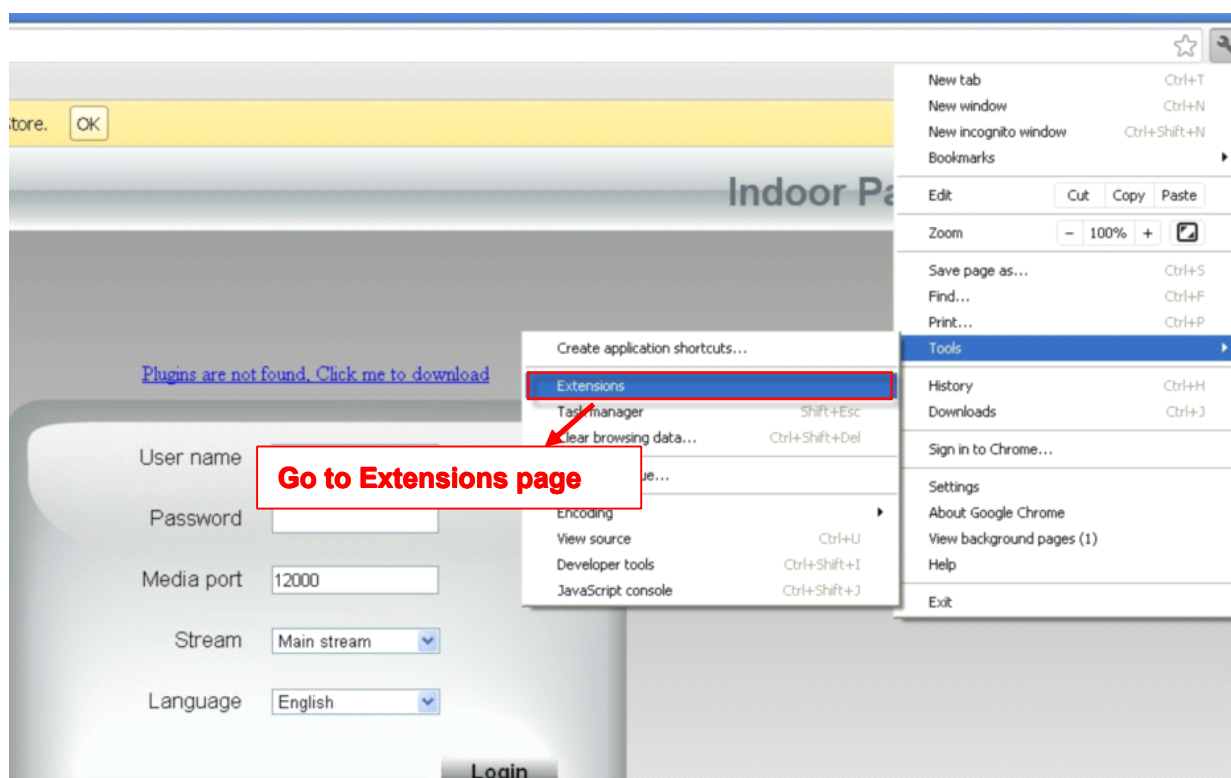


Figure 7.4

Click Add button to install the Plugins.

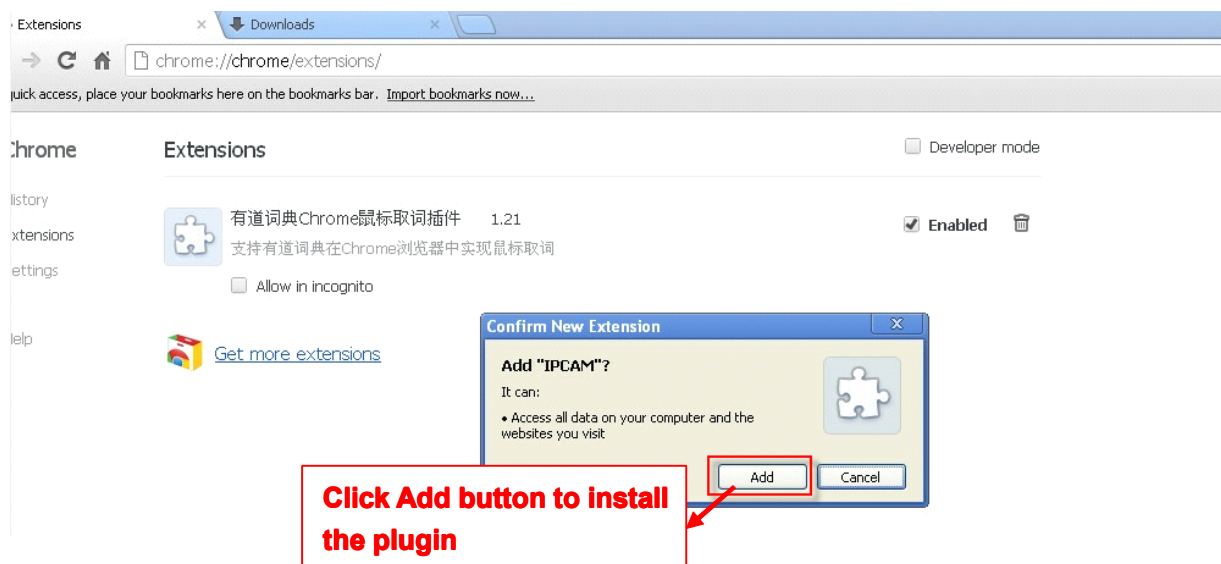


Figure 7.5

Reboot the browser and relogin the camera, you will see the surveillance window.

7.1.3 I have forgotten the administrator password

To reset the administrator username and password, press and hold down the RESET BUTTON for 5 seconds. Upon releasing the reset button, wait for 20 seconds, the camera will reboot and the username and password will return to the factory default administrator username and password. Please power on the camera before reset

Default administrator username: **admin**

Default administrator password: No password

7.1.4 Camera can not record when I click Record button or I can't change the manually record path

When you use Windows7 or Vista, you may be not able to do manually record or change the record path because of the security settings of computer.

There are two ways to resolve this problem:

(1) Please add the camera as a trusted site to resolve this issue. The steps are

IE browser→Tool→Internet Properties→Security→Trusted sites→Sites→Add

(2) Open IE browser, then right click, select "Run as administrator"

7.1.5 Subnet doesn't match

Check whether your ipcamera in the same subnet of your computer. The step is **Control**

Panel→Network Connections→Dbclick **Local Area Connections** → Choose

General→Properties.(Figure 3.23/3.24) Check subnet mask, IP address and gateways. When you set IP address please make sure they are in the same subnet. Otherwise you can't access camera.

7.1.6 No Pictures Problems

The video streaming is transmitted by the ActiveX controller. If ActiveX controller isn't installed correctly you will see no video image. You can resolve this problem by this way:

Download ActiveX controller and set the safety property of IE in the PC when you view it first time: IE browser → Tool → Internet Proper → Security → Custom Level → ActiveX control and Plug-ins. Three options of front should be set to be "Enable", The ActiveX programs read by the computer will be stored. As follows:

Enable: Download unsigned ActiveX controls

Enable: Initialize and script ActiveX controls not marked as safe

Enable: Run ActiveX controls and plug-ins

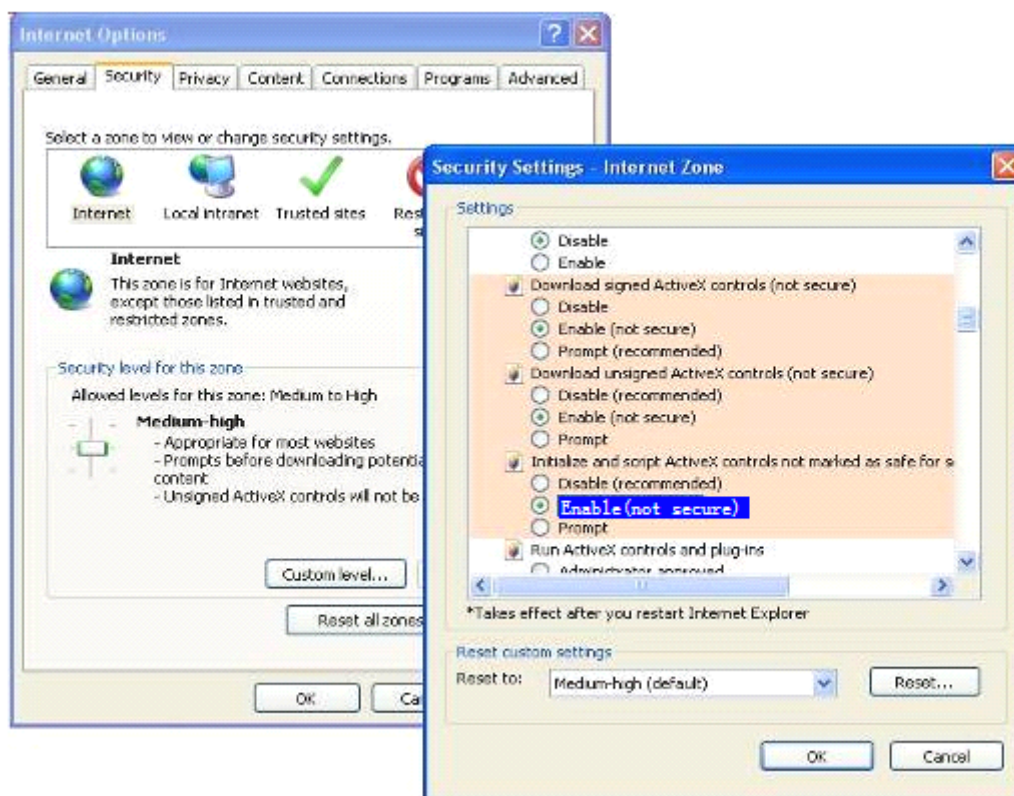


Figure 7.6

If you allow the ActiveX running, but still could not see living video. Please change another port number to try. Don't use port 88.

<div>Save</div> <div>Refresh</div>	
http port	8000
Media port	12000

Figure 7.7

NOTE: Make sure that your firewall or anti-virus software does not block the camera or ActiveX. If you could not see video, please shut down firewall or anti-virus software to try again.

7.1.7 Can't access IP camera in internet

There are some reasons:

- 1、ActiveX controller is not installed correctly
- 2、The port which camera used is blocked by Firewall or Anti-virus software. Please change another port number and try again. (Figure 7.7)
- 3、Port forwarding is not successful (Figure 4.30)

Check these settings and make sure they are correct.

7.1.8 UPnP always failed

UPnP only contains port forwarding in our recent software. Sometimes, it may be failed to do port forwarding automatically because of firewall or anti-virus software. It also has much relation with router's security settings. So we recommend you do port forwarding manually. You can view your camera in internet successfully after you do port forwarding manually in your router(Figure 4.30).

7.1.9 Camera can not connect wireless

If your camera could not connect wireless after you set wireless settings and plug out the cable. Please check whether your settings are correct or not.

Normally, camera can't connect wireless mainly because of wrong settings.

Make sure broadcast your SSID; use the same encryption for router and camera.

7.1.10 Can't see other cameras listed in multi-device when using remote access

If you want to view all the cameras via the WAN, verify that each camera added in the multi-device settings can be accessed by using the DDNS name and port number. Use the DDNS domain name not the camera's LAN IP. (For more details see: How to add cameras in WAN)

7.2 Default Parameters

Default network Parameters

IP address: obtain dynamically

Subnet mask: obtain dynamically

Gateway: obtain dynamically

DDNS: Embedded FOSCAM domain name

Username and password

Default admin username: admin with a blank password

7.3 Specifications

ITEMS		FI9821W
Image Sensor	Image Sensor	1/4"Color CMOS Sensor
	Display Resolution	1280*720 Pixels
	Lens	f: 2.8mm, F:2.4
	Mini. Illumination	0.5Lux

	View angle	70 degrees
Video	Image Compression	H.264
	Resolution	720p (1280*720) , VGA (640*480)
	View	H.264 dual streaming
	Image adjust	The brightness, contrast, saturation , is adjustable
	Infrared mode	Automatic , manual (on/off)
	Light Frequency	50Hz, 60Hz
	Night visibility	Φ5mm 11 IR LEDs, Night visibility up to 8 meters
	Pan/Tilt Angle	Horizontal:300° & Vertical: 120°
Network	Ethernet	One 10/100Mbps RJ-45
	Supported Protocol	TCP/IP、UDP/IP、HTTP、SMTP、FTP、DHCP、DDNS、UPNP
	Wireless Standard	WIFI(IEEE802.11b/g/n)
	Support IP address	static IP address, dynamic IP address
Power	Power Supply	DC 5V/2.0A (EU,US,AU adapter or other types optional)
	Power Consumption	8Watts (Max.)
Alarm	Alarm detection	The motion detecting, detection threshold Settings
	Alarm inform	Support Email、FTP etc alarm inform way
Hardware Interface	SD CARD	SD CARD (Support to 32G)
	Audio Input/Output	One audio input jack, One audio output jack.
	Reset Buttons	One Reset
	Ethernet	One 10/100Mbps RJ-45
	Wireless Interface	WIFI antenna
Environment	Operate Temper.	0° ~ 55°C (32°F ~ 131°F)
	Operating Humidity	10% ~ 80% non-condensing
	Storage Temper.	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Physical	Dimension	117(L) x114(W) x129mm(H)
	Gross Weight	814g(Color Box Size:245 x 145 x 165mm)
	Net Weight	348g
PC Requirements	CPU	2.0GHZ or above
	Memory Size	256MB or above
	Display Card	64M or above
	Supported OS	Microsoft Windows 2000/XP/Vista/Windows7-32bit/Windows7-64bit/Windows8- 32 bit/ Windows8-64bit/ mac
	Browser	IE6 and above version or compatible browser, Firefox or other standard browsers
Software	Upgrade	Upgrade from network
Certification	CE,FCC	

7.4 CE & FCC

Electromagnetic Compatibility (EMC)

FCC Statement



This device complies with FCC Rules Part 15. Operation is subject to the following two conditions.

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

FCC Caution

Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

CE Mark Warning



This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

7.5 WARRANTY

Shenzhen FOSCAM Intelligent Technology Limited. ("FOSCAM") values your business and always attempts to provide you the very best of service.

No limited hardware warranty is provided by FOSCAM unless your FOSCAM product ("product") was purchased from an authorized distributor or authorized reseller. Distributors may sell products to resellers who then sell products to end users. No warranty service is provided unless the product is returned to an authorized return center in the region where the product was first shipped by FOSCAM or to the point-of-purchase, which may have regional specific warranty implications.

If you purchase your FOSCAM product from online store, please contact the point-of-purchase and ask for return/replacement/repair service.

Hardware Warranty Information

- FOSCAM provide 2-year limited warranty for naked product and 6-month limited warranty for accessories.

Limited Hardware Warranty

- FOSCAM products are warranted to be free from manufacturing defects in materials and workmanship starting from the shipping date of FOSCAM.

This limited hardware warranty does not cover:

- **Software**, including the software added to the products through our factory-integration system, software that included in the CD, etc.
- Usage that is not in accordance with product instructions.
- Failure to follow the product instructions.
- **Abuse firmware upgrade without the authorized technician's guidance.**
- **Normal wear and tear.**

Return Procedures

- Please read FOSCAM warranty policy & policy of your reseller first before sending items back to point-of-purchase.
- Customer must first contact point-of-purchase to obtain a **Return Merchandise Authorization (RMA)** number before returning the product. If the product you received is suspected to be defective and the product warranty has not expired, The RMA number will allow your reseller to track your return much easier and help them expedite processing your request.
- After receiving your RMA case number, pack the item(s) very well with the original box and all the original accessories included such as power adapters, brackets, cables, manuals, and driver CD disks.
- **Write your RMA number and the return reason** (the problem of the product) on the warranty card along with the complete package to send them back.

Replacement Services

- **If customers ask for replacement service, please contact point-of-purchase and follow their policy.**
- Our technicians will inspect all items returned for replacement requests. If the returned product is found in working order, we will return the same item received. However customers shall be responsible for all shipping & handling charges incurred for getting the units back to customers.
- If returned products are found defective, we will replace the product and assume the shipping cost for sending back the replacement unit to customers.
- If for any reason, we are unable to provide a replacement of the original returned item(s). You will have a choice for a "Substitute" item at the same equal value.
- We do not provide exchange and replacement due to normal **hardware upgrade** according the market after 14 days after the product is delivered.
- Our technicians will test the product before send out the replacement, any other demand for **more than two times** replacement for the same product during replacement limit will be rejected.
- **Replaced products are warranted from the balance of the former warranty period.**

Warranty Forfeiture

- Warranty is void if purchase from unauthorized distributor or reseller.
- **Warranty is void if trade-mark, serial tags, product stickers have been removed, altered or tampered with.**
- Warranty is void for mishandling, improper use, or defacing the product.
- **Abuse firmware upgrade without the authorized technician's guidance.**
- Warranty is void for physical damage, altered, either internally or externally, improper or inadequate packaging when returned for RMA purposes.
- Warranty is void if damage has resulted from accident, dismantle, abuse, or service or modification by someone other than the appointed vendor, source, fission or the spare part has been over the period of warranty.
- Warranty is void if product is damaged due to improper working environment or operation. (For example, improper temperature, humidity, unusual physical or electrical stress or interference, failure or fluctuation of electrical power, static electricity, **using wrong power adapter**, etc.)
- Warranty is void if damaged by the use of parts not manufactured or sold by FOSCAM.
- Damage caused by improper installation of third-party products.
- Warranty is void if damaged for irresistible cause, such as earthquake, fire, lightning, flood, etc.
- Product beyond limited warranty.

Shipping Fee

- If products are defective or damaged under normal use or operation in the replacement limit, distributors or resellers are responsible for the shipping cost the product back to

customers, customers should assume the shipping cost send the product to the point-of-purchase.

- During replacement limit, if customers ask for replacement due to the product does not fit for customer's personal expectation, customers should responsible for both shipping fee.
- Customers shall be responsible for both shipping fee if their product beyond the replacement limit but still in warranty limit.

Repair Service Out Of Warranty

- FOSCAM provide extra repair service for product that out of warranty, it is chargeable. The total fee contains device cost and service fee. Device cost (including accessories) is the standard uniform price provide by FOSCAM.
- Different region may have different service fee, please contact the point-of-purchase to confirm that before you ask for this service.
- Our technicians will quote the total price after detect the product, If customers refused to repair after the quotation, customers need pay for the test fee, \$3.5/hour. If agree with the quotation, test will be free.
- Repaired product out of warranty will obtains 3-month warranty from the date of the product back to customers.

Limitation of Liability

- FOSCAM is not responsible for other extra warranty or commitment promised by resellers, if your reseller promised some extra commitment or warranty; please ask for written documents to protect your rights and interests.
- FOSCAM does not offer refunds under any circumstances. Please contact the point-of-purchase and follow their refund/return policy.
- FOSCAM shall not be liable under any circumstances for any consequential, incidental, special or exemplary damages arising out of or in any connection with this agreement or the products, including but not limited to lost profits, or any claim based on indemnity or contribution, or the failure of any limited or exclusive remedy to achieve its essential purpose or otherwise. Purchaser's exclusive remedy, as against FOSCAM, shall be the repair or replacement of defective parts. If FOSCAM lists a product on its website specification in error or that is no longer available for any reason, FOSCAM reserves the right to explain it without incurring any liability.

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8 OBTAINING TECHNICAL SUPPORT

While we hope your experience with the IPCAM network camera is enjoyable and easy to use, you may

experience some issues or have questions that this User's Guide has not answered. If you have problem with FOSCAM IP camera, please first contact FOSCAM reseller for solving the problems. If our reseller cannot provide service, please contact our service department: tech@foscam.com

